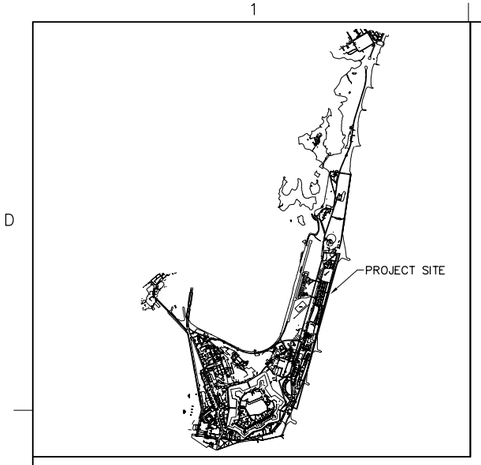
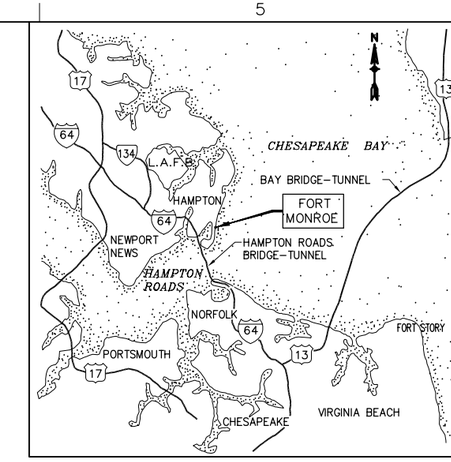
WHERRY FAMILY HOUSING
FORT MONROE

HAMPTON, VIRGINIA

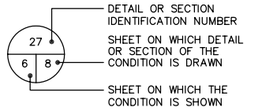


LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

DETAIL SYMBOLS



2:1 SLOPE — 2 HORIZONTAL TO 1 VERTICAL

1 ON 2 SLOPE — 1 VERTICAL ON 2 HORIZONTAL

△ — DEFLECTION ANGLE

DRAWING INDEX

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A B B R E V I A T I O N S

A, AMP	AMPERE
AB	ANCHOR BOLT, AUGER BORING
ABS	AIR BREAK SWITCH
AC	AIR CONDITIONING, ASBESTOS CEMENT, ASPHALTIC CONCRETE
ACB	AIR CIRCUIT BREAKER
ACSR	ALUMINUM CONDUCTOR STEEL REINFORCED
ACST	ACOUSTIC
AD	AREA DRAIN
ADJ	ADJUSTABLE
AL	ALUMINUM
ALT	ALTERNATE
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ARR	ARRESTOR
ASPH	ASPHALT
AWG	AMERICAN WIRE GAGE
B	BOTTOM
BD	BOARD
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BLK	BLOCK
BM	BEAM
BR	BOTTOM REGISTER
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
℄	CENTERLINE
CAP	CAPACITY
CC	CENTER TO CENTER
CEM	CEMENT
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CIP	CAST IRON PIPE
CIR	CIRCULATING
CJ	CONTROL JOINT
CKT	CIRCUIT
CL	CLEAR
CLG	CEILING
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL PIPE ARCH
CMU	CONCRETE MASONRY UNIT
CND, C	CONDUIT
CNDS	CONDENSATE
CO	CLEANOUT
CODP	CLEANOUT W/ DECK PLUG
COL	COLUMN
CONC	CONCRETE
COND	CONDUCTOR
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTION
CONV	CONVERTER
COP, CU	COPPER
CP	NONREINFORCED CONCRETE PIPE
CR	CEILING REGISTER
CRS	STAINLESS STEEL
CSK	COUNTER SUNK
CT	CERAMIC TILE, CURRENT TRANSFORMER
CTR	CENTER
CW	COLD WATER
CWB	CAPILLARY WATER BARRIER

D	DEPTH, DEEP, DEGREE OF CURVATURE
DB	DRY BULB, DECIBEL, DIRECT BURIAL
DET	DETAIL
DH	DRILL HOLE
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DMPR	DAMPER
DN	DOWN
DO	DITTO
D PNL	DISTRIBUTION PANEL
DS	DOWNSPOUT
DWD	DRINKING WATER DISPENSER
DWG	DRAWING
E	EAST
EA	EACH
EAT	ENTERING AIR TEMPERATURE
EC	EMPTY CONDUIT
EF	EACH FACE
EL	ELEVATION
ELEC	ELECTRIC
EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EQ	EQUAL
EQUIP	EQUIPMENT
EVAP	EVAPORATIVE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION, EXPOSED
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
F	FAHRENHEIT, FIRE
FABX	FIRE ALARM BOX
FD	FLOOR DRAIN, FIRE DAMPER
FDN	FOUNDATION
FDR	FEEDER
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIG	FIGURE
FIN	FINISH
FJ	FELT JOINT
FL	FLOOR, FLASHING
FLUOR	FLUORESCENT
FPH	FROST PROOF HYDRANT
FPM	FEET PER MINUTE
FR	FRAME
FS	FULL SIZE
FT	FOOT, FEET
FTG	FOOTING
4 WAY	FOUR WAY
GA	GAGE
GALV	GALVANIZED
GL	GLASS
GPM	GALLONS PER MINUTE
GR	GRADE
GRD	GROUND
GSU	GLAZED STRUCTURAL UNIT
GW	GROUND WATER
GYP	GYPSUM

H	HOUR, HEIGHT
HGT	HEIGHT
HB	HOSE BIBB
HD	HARD DRAWN
HDW	HARDWARE
HGSW	HORN GAP SWITCH
HORIZ	HORIZONTAL
HP	HORSEPOWER, HIGH POINT
HR	HOUR
HS	HIGH STRENGTH
HW	HOT WATER, HEADWALL
HWL	HIGH WATER LEVEL
HVY	HEAVY
HZ	HERTZ
ID	INSIDE DIAMETER, INSIDE DIMENSION
IN	INCH
INT	INTERIOR
INSUL	INSULATION, INSULATED
INV	INVERT
JB	JUNCTIN BOX
JC	JANITOR CLOSET
JCT	JUNCTION
JST	JOIST
JT	JOINT
KCP	KEENE'S CEMENT PLASTER
KO	KNOCK OUT
KV	KILOVOLT
KVA	KILOVOLT-AMPERE
KW	KILOWATT

L	LOUVER, LENGTH, LENGTH OF CURVE
LA	LIGHTING ARRESTOR
LBS	POUNDS
LC	LEAD COVERED
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LT	LIGHT
LAV	LAVATORY
MACH	MACHINE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MECH	MECHANICAL
MET	METAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MOTOR OPERATED, MASONRY OPENING
MP	MEDIUM PRESSURE
MTD	MOUNTED
MTG	MOUNTING
MWP	MEMBRANE WATERPROOFING
N	NORTH
NC	NON CORROSIVE
NDC	NOSE DOWN CURB
NEUT	NEUTRAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE

OA	OUTSIDE AIR
OC	ON CENTER
OCB	OIL CIRCUIT BREAKER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP	OPPOSITE
OSD	OPEN SITE DRAIN
OVHD,OH	OVERHEAD
P	PIPE
PB	PULL BOX
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PJF	PREFORMED JOINT FILLER
PL	PLATE
PLAS	PLASTER
PLNJ	PAPER AND LEAD NEOPRENE JACKET
PLYWD	PLYWOOD
PNL	PANEL
PRELIM	PRELIMINARY
PRESS	PRESSURE
PRIM	PRIMARY
PRV	PRESSURE RELIEF VALVE
PS	PULL SWITCH
PSI	POUNDS PER SQUARE INCH
PT	POINT, POINT OF TANGENT
PVC	POINT OF VERTICAL CURVE POLY VINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
PSF	POUNDS PER SQUARE FOOT
QT	QUARRY TILE

R	RADIUS, RISER, RUBBER SHEATH
RA	RETURN AIR
RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN, ROAD
RECP	RECEPTACLE
RED	REDUCING
REINF	REINFORCEMENT
REG	REGULATOR, REGISTER
REQD	REQUIRED
REV	REVISION
RF	ROOF
RI	RUBBER INSULATED
RL	RAIN LEADER
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
S	SOUTH
SAN	SANITARY SEWER
SATC	SUSPENDED ACOUSTICAL TILE CEILING
SCH	SCHEDULE
SD	SPLITTER DAMPER, STORM DRAIN
SECT	SECTION
SERV	SERVICE
SH	SHEET
SKCP	SUSPENDED KEENE'S CEMENT PLASTER
SL	SLOPE
SMH	SANITARY MANHOLE
SP	STATIC PRESSURE, SINGLE POLE
SPC	SUSPENDED PLASTER CEILING
SPDT	SINGLE POLE, DOUBLE THROW
SPEC	SPECIFICATION
SPST	SINGLE POLE, SINGLE THROW
SQ	SQUARE
ST	STREAM, SINGLE THROW, STREET, STEAM
STA	STATION
STD	STANDARD
STL	STEEL
SUP	SUPPORT
SUSP	SUSPENDED
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
1 PH	SINGLE PHASE
T	TILE, TOP, TANGENT
T&B	TOP AND BOTTOM
TC	TOP OF CURB
TEL	TELEPHONE
TEMP	TEMPERATURE, TEMPORARY
TERM	TERMINAL
TH	TOTAL HEAD (PUMPS)
THRSLD	THRESHOLD
THRU	THROUGH
TP	TEST PIT
TR	TOP REGISTER
TS	TOP OF STEEL, TOP OF STONE, TOP OF SLAB
TW	TOP OF WALL
TYP	TYPICAL
3/C	THREE CONDUCTOR
3/P	THREE POLE
3 WAY	THREE WAY

UG	UNDERGROUND
UH	UNIT HEATER
V	VENT, VOLT, VALVE
VAC	VACUUM
V ASB	VINYL ASBESTOS
VC	VARNISH CAMBRIC, VITRIFIED CLAY
VCP	VITRIFIED CLAY PIPE
VENT	VENTILATION
VERT	VERTICAL
VEST	VESTIBULE
VS	VENT STACK
VTR	VENT THROUGH ROOF
W	WIDTH, WASTE, WATER, WATT, WEST
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER CLOSET
WD	WIDTH, WINDOW DIMENSION
WL	WATER LEVEL
WP	WATERPROOF, WEATHERPROOF
WS	WASTE STACK, WATER SURFACE, WATERSTOP
WT	WEIGHT
WWM	WELDED WIRE MESH
XFMR	TRANSFORMER
X-STR	EXTRA STRENGTH

US Army Corps of Engineers
Norfolk District

REV.	DATE	DESCRIPTION	BY	APP.

DESIGNED: FAZ
DRAWN: ECB
CHECKED: BOT
SUBMITTED: TLD
DATE: 22 DEC 04
SCALE: AS SHOWN
PROJECT NO. 60772
NORFOLK DISTRICT FILE NO. FM 346-1.1
SPECIFICATION NO.
DRAWING NO. 711-14-14
Last worked on:
File name:
Plot scale: 1:1

Norfolk District
US Army Corps of Engineers
Norfolk, Virginia

22 DECEMBER 2004

WHERRY FAMILY HOUSING REPLACEMENT
FORT MONROE
HAMPTON, VA

PROJECT TITLE SHEET

T-001
SHEET OF

REVDATE

US Army Corps of Engineers
Norfolk District

REV.	DATE	DESCRIPTION	BY	APP.

DESIGNED: FAZ	CHECKED: BOT	DATE: 22 DEC 04	
DRAWN: NAP	SUBMITTED: TLD	SCALE: AS SHOWN	
PROJECT NO. 60772		NORFOLK DISTRICT FILE NO. FM 346-1.2	
DRAWING NO. 711-14-14		SPECIFICATION NO.	
Last worked on:		Plot scale: 1:1	
File name:			

Norfolk District
US Army Corps of Engineers
Norfolk, Virginia

22 DECEMBER 2004

WHERRY FAMILY HOUSING REPLACEMENT
FORT MONROE
HAMPTON, VA

OVERALL SITE PLAN

T-002
SHEET OF

SURVEY NOTES

1. TOPOGRAPHIC SURVEY PREPARED BY C. ALLAN BAMFORTH, JR., ENGINEER – SURVEYOR LTD., DATED MARCH 2004

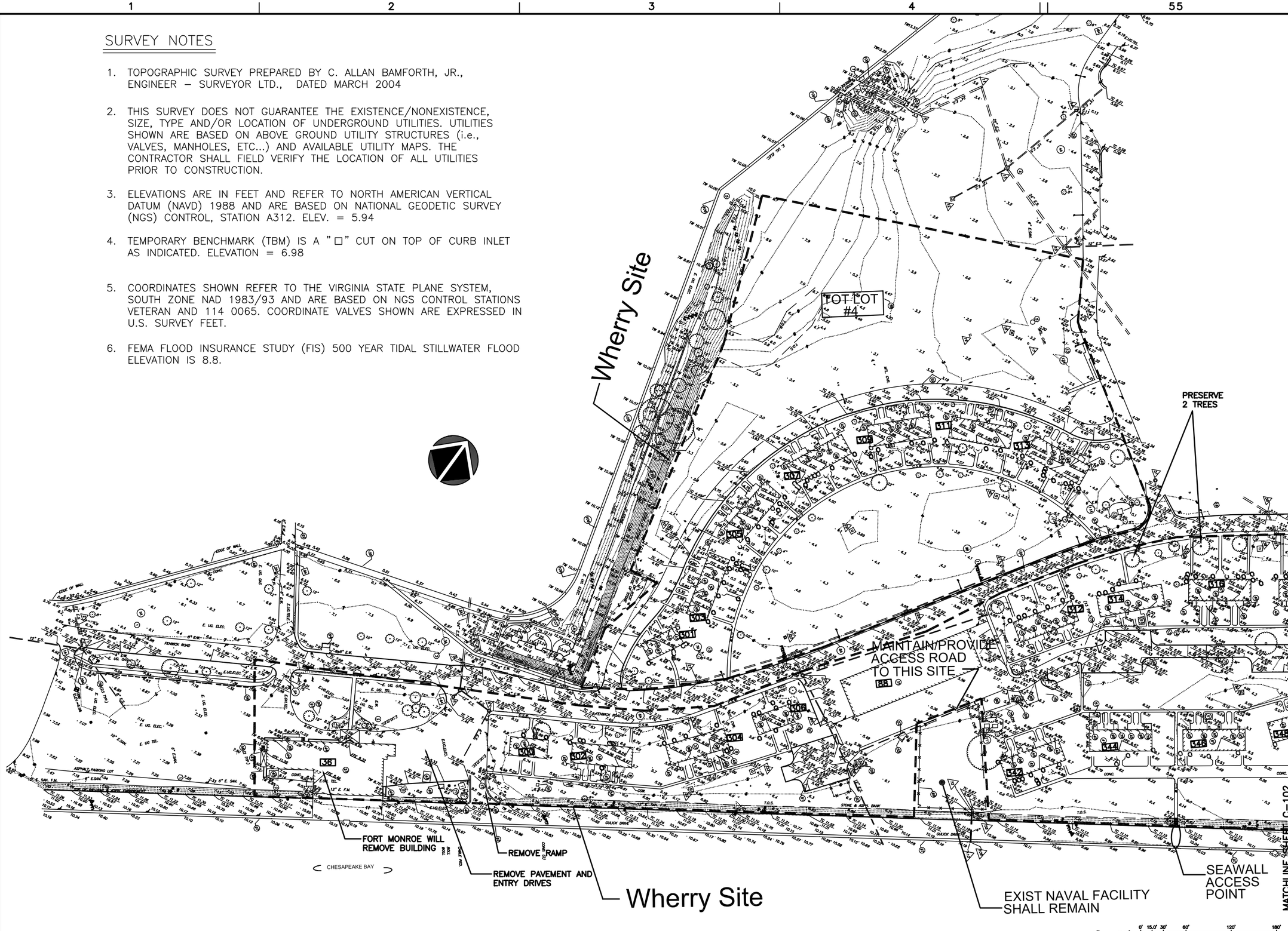
2. THIS SURVEY DOES NOT GUARANTEE THE EXISTENCE/NONEXISTENCE, SIZE, TYPE AND/OR LOCATION OF UNDERGROUND UTILITIES. UTILITIES SHOWN ARE BASED ON ABOVE GROUND UTILITY STRUCTURES (i.e., VALVES, MANHOLES, ETC...) AND AVAILABLE UTILITY MAPS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

3. ELEVATIONS ARE IN FEET AND REFER TO NORTH AMERICAN VERTICAL DATUM (NAVD) 1988 AND ARE BASED ON NATIONAL GEODETIC SURVEY (NGS) CONTROL, STATION A312. ELEV. = 5.94

4. TEMPORARY BENCHMARK (TBM) IS A "□" CUT ON TOP OF CURB INLET AS INDICATED. ELEVATION = 6.98

5. COORDINATES SHOWN REFER TO THE VIRGINIA STATE PLANE SYSTEM, SOUTH ZONE NAD 1983/93 AND ARE BASED ON NGS CONTROL STATIONS VETERAN AND 114 0065. COORDINATE VALVES SHOWN ARE EXPRESSED IN U.S. SURVEY FEET.

6. FEMA FLOOD INSURANCE STUDY (FIS) 500 YEAR TIDAL STILLWATER FLOOD ELEVATION IS 8.8.



US Army Corps of Engineers
Norfolk District

DESIGNED FAZ	CHECKED BOT	DATE 22 DEC 04	
DRAWN NAP	SUBMITTED TLD	SCALE AS SHOWN	
PROJECT NO. 60772		CONTRACT NO. FM 346 1.3	
DRAWING NO. 711-14-14			

Norfolk District
US Army Corps of Engineers
Norfolk, Virginia

22 DECEMBER 2004

WHERRY FAMILY HOUSING REPLACEMENT
FORT MONROE
HAMPTON, VA

SITE PLAN

C-101
SHEET OF

EXISTING CONDITIONS

1 STY. FRAME #P-176
1 STY. STUCO #1 PATTON RD.
1 STY. FRAME #173
1 STY. FRAME #174
1 STY. FRAME #175
YOUTH ANNEX 1 STY. FRAME #98
WATERFRONT PARK
CONC. GUN EMPLACEMENT
4"x4" WOOD BORDER
2 STY. BRICK/WHITE #464
2 STY. BRICK/WHITE #466
2 STY. BRICK/WHITE #470
2 STY. BRICK/WHITE #472
2 STY. BRICK/WHITE #474
2 STY. BRICK/WHITE #476
BATTERY CHURCH
CONC. GUN EMPLACEMENT
BLDG. #462
BLDG. #464
BLDG. #444
BLDG. #442
BLDG. #440
WALKWAY
1 STY. #200-A
1 STY. BRICK #300
BLDG. #313
BLDG. #311
BLDG. #309
BLDG. #307
BLDG. #305
BLDG. #303
WTL. WAREHOUSE BLDG. #98
BLDG. #306
BLDG. #304
BLDG. #302
BLDG. #436
BLDG. #434
BLDG. #432
BLDG. #430
BLDG. #428
BLDG. #426
BLDG. #424
BLDG. #342
WOOD SHED
.85" BRICK PLANTER
4" IRON PIPE W/ CAP
3" STEEL RAIL
COVERED CONC. LOADING DOCK
CONC. PAD (TRANSFORMER)
1.3' CONC. WALL
CONC. PAD (TEL. CABINET)
METAL SHED
CONC. PAD (DUMPSTER)
CONC. PAD (BUS STOP)
49" WIRE FENCE
6' WOOD FENCE
PARKING BLOCK
BLDG. #316
BLDG. #314
BLDG. #312
BRICK COLUMN
BLDG. #346
BLDG. #348
BLDG. #350
BLDG. #352
BLDG. #354
BLDG. #356
BLDG. #358
BLDG. #360
6' CLC TOP RAIL W/ 5 STRAND B.W.
CONC. PAD
BLDG. #324
BLDG. #322
BLDG. #320
BLDG. #318
WOOD POST
CONC. STOOP & RAMP
METAL POST
.3' WOOD BORDER
BRICK PATIO
GRAVEL PARKING
BLDG. #462
BLDG. #460
BLDG. #458
BLDG. #456
BLDG. #454
BLDG. #452
BLDG. #301
BLDG. #370 CHILD DIVISION CENTER
HANDICAP RAMP
2" OIL TANK VENT
2" OIL FILL
COVERED BRIDGE TO EAST GATE
PUMP STATION
BUS STATION
1' CONC. WALL
.6' CONC. WALL
3'.0 CONC. SEAWALL
4" IRON PIPE W/ CAP
METAL HOT BOX
UNKNOWN PEDESTAL
UNKNOWN METAL STRUCTURE
GAS METERS
WOODEN FENCE
3" SUPPORT POST
4"X4" SUPPORT POST
3.5' WINDWALL
3" STONEWALL
1.3' STONEWALL
3' STONE WALL
1.5' STONE WALL
CONC. PAD W/ ELEC. PANEL
60" WOOD FENCE
60" CLF.
CONCRETE SWALE
BLDG. #462
CONC. SWALE
WOOD WALK
2" PIPE RAILING
BARRIER
6" CUT.
BRASS DISK
6" METAL COVER
BUS STOP KIOSK
DUGOUT
FOUL POST
FLOWER BED

EXISTING SANITARY SCHEDULE

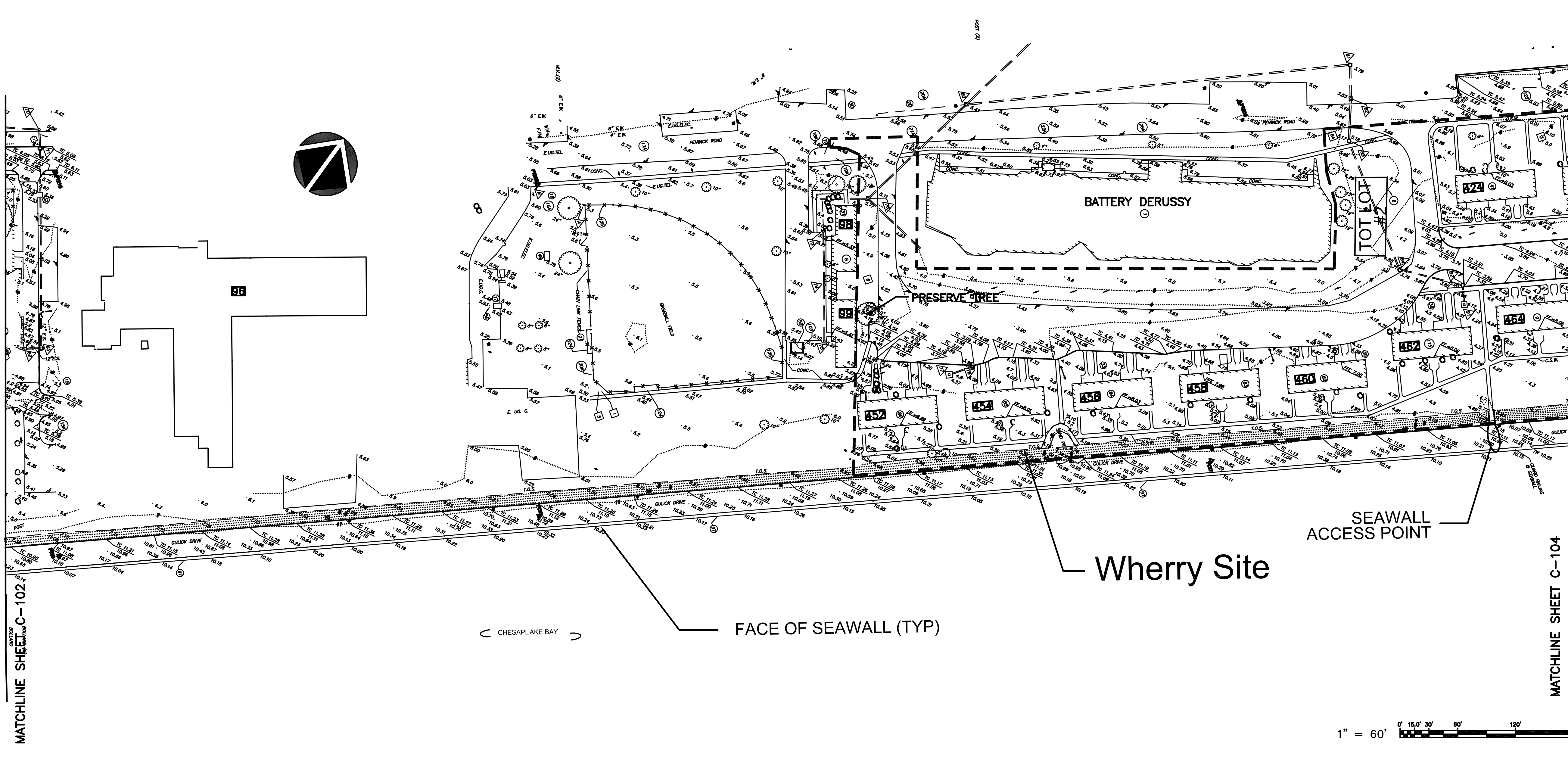
1	E. SAN. M.H.	Rim=13.12 INV. 6" (SE) = 3.53 INV. 6" (NE) = 3.53 INV. 6" (W) = 3.73
2	E. SAN. M.H.	Rim=7.24 INV. 6" (E) = 1.21 INV. 6" (SE) = 1.21
3	E. SAN. M.H.	Rim=9.09 INV. 6" (NW) = 2.66 INV. 6" (SE) = 2.52
4	E. SAN. M.H.	Rim=9.76 INV. 6" (SE) = 0.71
5	E. SAN. M.H.	Rim=9.57 INV. 6" (SE) = 0.97 INV. 6" (NE) = 0.97 INV. 6" (W) = 0.37
6	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
7	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
8	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
9	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
10	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
11	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
12	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
13	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
14	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
15	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
16	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
17	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
18	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
19	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
20	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
21	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
22	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
23	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
24	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
25	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
26	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
27	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
28	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
29	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
30	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
31	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
32	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
33	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
34	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
35	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
36	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
37	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
38	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
39	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
40	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
41	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
42	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
43	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
44	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
45	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
46	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
47	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
48	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
49	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
50	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
51	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
52	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
53	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
54	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
55	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
56	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
57	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
58	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
59	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
60	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
61	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
62	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
63	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
64	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
65	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
66	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
67	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
68	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
69	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
70	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
71	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
72	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
73	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
74	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
75	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
76	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
77	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
78	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
79	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
80	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
81	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
82	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
83	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
84	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
85	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
86	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
87	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
88	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
89	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
90	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
91	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
92	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
93	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
94	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
95	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
96	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
97	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
98	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
99	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
100	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
101	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
102	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
103	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
104	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
105	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
106	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
107	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
108	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
109	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
110	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
111	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
112	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
113	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
114	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
115	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
116	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
117	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
118	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
119	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
120	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
121	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
122	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
123	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
124	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
125	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
126	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
127	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
128	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
129	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
130	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
131	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
132	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
133	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
134	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
135	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
136	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
137	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
138	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
139	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
140	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
141	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
142	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
143	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
144	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
145	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
146	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
147	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
148	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
149	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
150	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
151	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
152	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
153	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
154	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
155	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
156	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
157	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
158	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
159	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
160	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
161	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
162	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
163	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
164	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
165	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
166	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
167	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
168	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
169	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
170	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
171	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
172	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
173	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
174	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
175	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
176	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
177	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
178	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
179	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
180	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
181	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
182	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
183	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
184	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
185	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
186	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
187	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
188	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
189	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
190	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
191	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
192	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
193	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
194	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
195	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
196	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
197	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
198	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
199	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
200	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
201	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
202	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
203	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
204	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
205	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
206	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
207	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
208	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
209	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
210	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
211	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
212	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
213	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72
214	E. SAN. M.H.	Rim=9.78 INV. 6" (SE) = 1.75
215	E. SAN. M.H.	Rim=9.37 INV. 6" (SE) = (-)0.40 INV. 6" (SW) = (-)0.34
216	E. SAN. M.H.	Rim=9.30 INV. 10" (S) = (-)0.80 INV. 6" (SW) = (-)0.54 INV. 6" (W) = 1.72

EXISTING STORM SCHEDULE

1	E. CB. Rim=9.04 INV. 12" (S) = 2.52 INV. 12" (N) = 2.42 INV. 12" (E) = 2.42
2	E. CB. Rim=9.22 INV. 12" (S) = 2.06 INV. 21" (N) = 1.08
3	E. CB. Rim=9.77 INV. 12" (S) = (-)0.38 INV. 12" (N) = (-)0.38 INV. 24" (NW) = (-)0.39
4	E. CB. Rim=9.08 INV. 12" (S) = 2.26 INV. 12" (N) = 2.26 INV. 12" (E) = 2.26
5	E. CB. Rim=9.12 INV. 12" (NE) = 3.48
6	E. CB. Rim=9.12 INV. 12" (NE) = 5.60 INV. 12" (SW) = 4.3
7	E. CB. Rim=9.22 INV. 12" (NE) = 0.01 INV. 24" (NW) = 0.01
8	E. CB. Rim=9.21 INV. 12" (NE) = 0.01 INV. 24" (SW) = 0.01
9	E. CB. Rim=9.22 INV. 12" (NE) = 3.66 INV. 12" (SW) = (-) 2.91
10	E. CB. Rim=9.22 INV. 12" (NE) = (-) 3.39 INV. 12" (SW) = (-) 3.17 INV. 6" (SE) = (-) 3.66
11	E. CB. Rim=9.22 INV. 12" (NE) = (-)3.79 INV. 12" (SW) = (-)3.77 INV. 12" (SE) = (-)3.62
12	E. CB. Rim=9.22 INV. 12" (NE) = (-)3.13 INV. 12" (S) = (-)3.08
13	E. CB. Rim=9.22 INV. 12" (NW) = (-)0.61
14	E. CB. Rim=9.09 INV. 12" (NE) = 0.66 INV. 12" (S) = 0.16 INV. 12" (W) = 0.16
15	E. CB. Rim=9.12 INV. 12" (NE) = 0.11 INV. 12" (W) = 0.11
16	E. CB. Rim=9.12 INV. 12" (NE) = 0.04 INV. 12" (S) = 0.16
17	E. CB. Rim=9.12 INV. 12" (NE) = 0.67 INV. 12" (S) = 0.07
18	E. CB. Rim=9.12 INV. 12" (NE) = 0 INV. 18" (NE) = 0 INV. 12" (S) = (-)0.15 INV. 12" (W) = (-)0.21
19	E. S. MH. Rim=9.12 INV. 12" (NE) = 0.60 INV. 12" (S) = 0.60
20	E. S. MH. Rim=9.12 INV. 12" (NE) = 0.60 INV. 12" (S) = 0.60
21	E. CB. Rim=9.12 INV. 12" (NE) = 0.60 INV. 12" (S) = 0.60
22	E. CB. Rim=9.12 INV. 12" (NE) = 0.60 INV. 24" (SW) = 0.44
23	E. CB. (FULL OF DEBRIS) Rim=9.12 INV. 12" (NE) = 2.52 INV. 12" (S) = 2.42 INV. 12" (W) = 2.42
24	E. CB. (FULL OF DEBRIS) Rim=9.12 INV. 12" (NE) = 2.06 INV. 12" (S) = 1.94
25	E. CB. Rim=9.12 INV. 12" (NE) = 1.14 INV. 12" (S) = 1.24
26	E. SAN. M.H. INV. 6" (W) = (-)0.80 INV. 6" (SW) = (-)0.77
27	E. SAN. M.H. (FULL OF WATER)
28	E. SAN. M.H. (ABANDONED/FULL OF WATER AND DEBRIS)

SURVEY NOTES

1. TOPOGRAPHIC SURVEY PREPARED BY C. ALLAN BAMFORTH, JR., ENGINEER – SURVEYOR LTD., DATED MARCH 2004
2. THIS SURVEY DOES NOT GUARANTEE THE EXISTENCE/NONEXISTENCE, SIZE, TYPE AND/OR LOCATION OF UNDERGROUND UTILITIES. UTILITIES SHOWN ARE BASED ON ABOVE GROUND UTILITY STRUCTURES (i.e., VALVES, MANHOLES, ETC...) AND AVAILABLE UTILITY MAPS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
3. ELEVATIONS ARE IN FEET AND REFER TO NORTH AMERICAN VERTICAL DATUM (NAVD) 1988 AND ARE BASED ON NATIONAL GEODETIC SURVEY (NGS) CONTROL, STATION A312. ELEV. = 5.94
4. TEMPORARY BENCHMARK (TBM) IS A "□" CUT ON TOP OF CURB INLET AS INDICATED. ELEVATION = 6.98
5. COORDINATES SHOWN REFER TO THE VIRGINIA STATE PLANE SYSTEM, SOUTH ZONE NAD 1983/93 AND ARE BASED ON NGS CONTROL STATIONS VETERAN AND 114 0065. COORDINATE VALVES SHOWN ARE EXPRESSED IN U.S. SURVEY FEET.
6. FEMA FLOOD INSURANCE STUDY (FIS) 500 YEAR TIDAL STILLWATER FLOOD ELEVATION IS 8.8.



US Army Corps of Engineers
Norfolk District

Norfolk District
US Army Corps of Engineers
Norfolk, Virginia

22 DECEMBER 2004

DESIGNED: FAZ	CHECKED: BOT
DRAWN: NAP	SUBMITTED: TLD
PROJECT NO. 60772	NORFOLK DISTRICT FILE NO. FM 346–1.5
DRAWING NO. 711–14–14	DATE: 22 DEC 04
	SCALE: AS SHOWN

WHERRY FAMILY HOUSING REPLACEMENT
FORT MONROE
HAMPTON, VA

SITE PLAN

C-103
SHEET OF

EXISTING CONDITIONS

1 1 STY. FRAME @#-176
2 1 STY. STUCCO @1 PATTON RD.
3 1 STY. FRAME @173
4 1 STY. FRAME @174
5 1 STY. FRAME @175
6 YOUTH ANNEX 1 STY. FRAME @99 (KOPERNICK RD.)
7 BATTERY DE RUSSY CONC. GUN EMPLACEMENT
8 6"X6" WOOD BORDER
9 2 STY. BRICK/VINYL @484
10 2 STY. BRICK/VINYL @466
11 2 STY. BRICK/VINYL @468
12 2 STY. BRICK/VINYL @470
13 2 STY. BRICK/VINYL @472
14 2 STY. BRICK/VINYL @474
15 2 STY. BRICK/VINYL @476
16 BATTERY CHURCH CONC. GUN EMPLACEMENT
17 BLDG. @482
18 BLDG. @484
19 BLDG. @444
20 BLDG. @442
21 BLDG. @440
22 MAILBOX
23 1 STY. @280-A
24 1 STY. BRICK @300
25 BLDG. @313
26 BLDG. @311
27 BLDG. @309
28 BLDG. @307
29 BLDG. @305
30 BLDG. @303
31 MTL. WAREHOUSE BLDG. @99
32 BLDG. @306
33 BLDG. @304
34 BLDG. @302
35 BLDG. @436
36 BLDG. @434
37 BLDG. @432
38 BLDG. @430
39 BLDG. @428
40 BLDG. @426
41 BLDG. @424
42 BLDG. @342
43 WOOD SHED
44 .50" BRICK PLANTER
45 CONC. PAD (AIR CONDITION UNIT)
46 2" STEEL PAL.
47 COVERED CONC. LOADING DOCK
48 CONC. PAD (TRANSFORMER)
49 1.7' CONC. WALL
50 CONC. PAD (TEL. CABINET)
51 METAL SHED
52 CONC. PAD (DUMPSTER)
53 CONC. PAD (BUS STOP)
54 48" WIRE FENCE
55 6' WOOD FENCE
56 PARKING BLOCK
57 BLDG. @316
58 BLDG. @314
59 BLDG. @312
60 BRICK COLUMN
61 BLDG. @346
62 BLDG. @348
63 BLDG. @350
64 BLDG. @352
65 BLDG. @354
66 BLDG. @356
67 BLDG. @358
68 BLDG. @360
69 6' CLF, TOP RAIL W/ 3 STRAND BARB WIRE
70 CONC. PAD
71 BLDG. @482
72 BLDG. @332
73 BLDG. @330
74 BLDG. @318
75 WOOD POST
76 CONC. STOOP & RAMP
77 METAL POST
78 .5" WOOD BORDER
79 BRICK PATIO
80 GRAVEL PARKING
81 BLDG. @462
82 BLDG. @460
83 BLDG. @458
84 BLDG. @456
85 BLDG. @454
86 BLDG. @452
87 BLDG. @301
88 BLDG. @370 CHILD DIVISION CENTER
89 HANDICAP RAMP
90 2" OIL TANK VENT
91 2" OIL FILL
92 COVERED BRIDGE TO BLDG. @370
93 PUMP STATION
94 BUS STATION
95 1' CONC. WALL
96 .8" CONC. WALL
97 3'-0 CONC. SEAWALL
98 4" IRON PIPE W/ CAP
99 METAL HOT BOX
100 UNKNOWN PEDESTAL
101 UNKNOWN METAL STRUCTURE
102 GAS METERS
103 WOODEN FENCE
104 3" SUPPORT POST
105 6"X6" SUPPORT POST
106 3.5" HANDRAIL
107 2" STONEWALL
108 1.2' STONEWALL
109 3' STONE WALL
110 1.5' STONE WALL
111 CONC. PAD W/ ELEC. PANEL
112 60" WOOD FENCE
113 60" CLF
114 CONCRETE SIMILE
115 BLDG. @462
116 CONC. SIMILE
117 WOOD WALK
118 2" PIPE RAILING
119 BARRIER
120 6' CLF
121 BRASS DISK
122 6" METAL COVER
123 BUS STOP KIOSK
124 DUGOUT
125 FOG POST
126 FLOWER BED

EXISTING SANITARY SCHEDULE

1 E. SAN. M.H.
RIM=10.13
INV. 6" (NE) = 3.53
INV. 6" (SW) = 3.53
INV. 6" (SE) = 3.73
2 E. SAN. M.H.
RIM=7.94
INV. 6" (NE) = 1.91
INV. 6" (SW) = 1.23
3 E. SAN. M.H.
RIM=7.97
INV. 6" (NE) = 2.64
INV. 6" (SW) = 2.66
INV. 4" (SE) = 2.79
4 E. SAN. M.H.
RIM=3.21
INV. 6" (NE) = (-) 0.71
5 E. SAN. M.H.
RIM=4.27
INV. 6" (SW) = 0.57
INV. 6" (SE) = 0.57
INV. 6" (SE) = 0.51
INV. 4" (SE) = 0.27
6 E. SAN. M.H.
RIM=4.13
INV. 6" (NE) = 1.72
INV. 6" (SE) = 1.62
INV. 4" (SE) = 1.62
7 E. SAN. M.H.
RIM=4.23
INV. 12" (SE) = (-)1.41
8 E. SAN. M.H.
RIM=3.71
INV. 6" (NE) = 1.76
INV. 6" (SW) = 1.83
9 E. SAN. M.H.
RIM=3.71
INV. 6" (NE) = 1.77
INV. 6" (SW) = 1.38
10 E. SAN. M.H.
RIM=4.84
INV. 6" (NE) = 1.08
INV. 6" (SE) = 1.03
11 E. SAN. M.H.
RIM=3.95
INV. 6" (N) = 1.08
INV. 6" (S) = 1.03
12 E. SAN. M.H.
RIM=3.17
INV. 6" (N) = 1.94
INV. 6" (S) = 1.94
13 E. SAN. M.H.
RIM=4.17
INV. 6" (N) = (-)0.05
INV. 6" (S) = 0.04
14 E. SAN. M.H.
RIM=4.17
INV. 6" (N) = (-)0.80
INV. 6" (S) = (-)0.77
15 E. SAN. M.H. (FULL OF WATER)
RIM=3.17
16 E. SAN. M.H. (ABANDONED)(FULL OF WATER AND DEBRIS)
RIM=3.17
17 E. SAN. M.H.
RIM=3.26
INV. 6" (N) = (-) 2.08
INV. 6" (S) = (-) 1.95
18 E. SAN. M.H. (ABANDONED)
RIM=3.17
19 E. SAN. M.H.
RIM=3.26
INV. 6" (N) = (-) 2.12
INV. 6" (S) = (-) 2.12
20 E. SAN. M.H.
RIM=3.26
INV. 6" (N) = (-) 1.78
INV. 6" (S) = (-) 1.81
21 E. SAN. M.H.
RIM=3.26
INV. 6" (N) = (-)1.98
INV. 6" (S) = (-)1.98
INV. 6" (W) = (-) 2.00
22 E. SAN. M.H.
RIM=3.26
INV. 6" (N) = (-)2.22
INV. 6" (S) = (-)2.22
INV. 6" (W) = (-)2.20
23 E. SAN. M.H.
RIM=3.26
INV. 6" (N) = 0.29
INV. 6" (S) = 0.27
INV. 6" (W) = 0.37
24 E. SAN. M.H.
RIM=3.84
INV. 6" (N) = 0.62
INV. 6" (W) = 0.64
25 E. SAN. M.H. (ABANDONED)
RIM=3.17
26 E. SAN. M.H. (ABANDONED)
RIM=3.17
27 E. SAN. M.H.
RIM=4.17
INV. 6" (N) = 1.14
INV. 6" (W) = 1.24
28 E. SAN. M.H.
RIM=
INV. 6" (SW) =
INV. 6" (W) =
29 E. SAN. M.H.
RIM=4.41
INV. 6" (N) = 0.11
INV. 6" (W) = (-)0.04
30 E. SAN. M.H.
RIM=4.41
INV. 6" (N) = (-)0.47
INV. 6" (S) = (-)0.57
31 E. SAN. M.H.
RIM=4.41
INV. 6" (N) = (-) 2.12
INV. 6" (S) = (-) 2.12
32 E. SAN. M.H.
RIM=4.41
INV. 6" (N) = (-)0.48
INV. 6" (W) = (-)0.48
33 E. SAN. M.H.
RIM=4.79
INV. 6" (N) = (-) 2.66
INV. 6" (S) = (-) 2.66
INV. 6" (W) = (-) 2.91
34 E. SAN. M.H.
RIM=4.79
INV. 6" (N) = (-)1.08
INV. 6" (S) = (-)1.08
INV. 6" (W) = (-)1.08
35 E. SAN. M.H.
RIM=4.79
INV. 6" (N) = (-)0.39
INV. 6" (S) = (-)0.39
36 E. SAN. M.H.
RIM=4.79
INV. 6" (N) = (-)2.19
INV. 6" (S) = (-) 2.17
INV. 6" (W) = (-) 2.66
37 E. SAN. M.H.
RIM=4.79
INV. 6" (N) = (-)3.29
INV. 6" (S) = (-)3.27
INV. 6" (W) = (-)3.22
38 E. SAN. M.H. (COVERED/IN.)
RIM=5.03
INV. 6" (N) = (-)1.85
INV. 6" (S) = (-)1.85
INV. 6" (W) = (-) 1.75
39 E. SAN. M.H.
RIM=4.79
INV. 6" (N) = (-)0.86
INV. 6" (S) = (-)0.86
INV. 6" (W) = (-)0.71
40 E. SAN. M.H.
RIM=4.79
INV. 6" (N) = (-)0.40
INV. 6" (S) = (-)0.34
INV. 6" (W) = (-)0.40
41 E. SAN. M.H.
RIM=5.30
INV. 6" (N) = (-)0.60
INV. 12" (N) = (-)0.65
INV. 12" (S) = (-)0.65
INV. 12" (W) = (-)0.60
INV. 15" (N) = (-)0.30
42 E. SAN. M.H.
RIM=5.02
INV. 6" (N) = (-)1.98
INV. 12" (W) = (-)1.98
43 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = (-)0.72
INV. 6" (S) = (-)0.72
INV. 6" (W) = (-)0.72
44 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.29
INV. 6" (W) = 0.27
45 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.62
INV. 6" (W) = 0.64
46 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
47 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
48 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
49 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
50 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
51 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
52 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
53 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
54 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
55 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
56 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
57 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
58 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
59 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
60 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
61 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
62 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
63 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
64 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
65 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
66 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
67 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
68 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
69 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
70 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
71 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
72 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
73 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
74 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
75 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
76 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
77 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
78 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
79 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
80 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
81 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
82 E. SAN. M.H.
RIM=5.13
INV. 6" (N) = 0.80
INV. 6" (W) = 0.84
83 E. SAN. M.H. (N/A)
INV. (N) = N/A

EXISTING STORM SCHEDULE

1 E. C.I.
RIM=7.04
INV. 18" (N) = 2.52
INV. 18" (S) = 2.52
2 E. C.I.
RIM=6.83
INV. 18" (N) = 2.08
INV. 18" (S) = 1.99
3 E. C.I.
RIM=7.77
INV. 18" (N) = (-)0.38
INV. 18" (S) = (-)0.39
INV. 18" (W) = (-)0.39
4 E. C.B.
RIM=7.59
INV. 12" (N) = 0.58
INV. 12" (S) = 2.98
INV. 12" (W) = 2.98
5 E. C.B.
RIM=7.59
INV. 12" (N) = 3.68
6 E. C.B.
RIM=7.50
INV. 12" (N) = 5.50
INV. 24" (S) = 5.3
7 E. C.I.
RIM=7.71
INV. 24" (N) = 0.01
INV. 24" (S) = 0.01
8 E. C.I.
RIM=7.71
INV. 24" (N) = 0.01
INV. 24" (S) = 0.01
9 1.4' WOOD HEADWALL
10 PIPE END
INV.=(-)1.22
11 E. C.B.
RIM=5.87
INV. 18" (E) = (-)1.13
INV.24" (S) = (-)0.88
12 E. C.B.
RIM=5.39
INV. 18" (N) = (-)0.61
13 E. C.B.
RIM=5.50
INV. 18" (N) = (-)0.40
INV. 18" (S) = (-)0.80
INV. 18" (W) = (-)0.80
INV. 28" (W) = (-)0.40
14 E. C.B.
RIM=5.50
INV. 18" (N) = 0.67
INV. 18" (S) = 0.67
INV. 18" (W) = 1.07
15 E. C.B.
RIM=5.50
INV. 18" (N) = 0
INV. 18" (S) = 0
INV. 18" (W) = (-)0.15
INV. 28" (W) = (-)0.25
16 E. C.B. (ABANDONED)
RIM=4.19
17 E. MH. (ABANDONED)
RIM=3.73
18 E. MH. (ABANDONED)
RIM=4.03
19 E. C.B.
RIM=4.41
INV. 18" (N) = 0.29
INV. 18" (S) = 0.29
20 E. C.B. (FULL OF DEBRIS)
RIM=4.41
21 E. C.B.
RIM=4.54
INV. 18" (N) = 0.80
INV. 24" (S) = 0.44
22 E. C.B. (FULL OF DEBRIS)
RIM=4.39
23 E. C.B.
RIM=4.17
INV. 18" (S) = 3.28
24 E. C.I.
RIM=4.17
INV. 18" (N) = 2.47
INV. 18" (S) = 2.4
25 E. C.I.
RIM=4.17
INV. 18" (N) = 2.47
INV. 18" (S) = 2.4
26 E. C.I.
RIM=4.17
INV. 18" (N) = 2.51
INV. 18" (S) = 2.51
27 E. C.B.
RIM=4.41
INV. 18" (N) = 2.50
28 E. C.B. (FULL OF DEBRIS)
RIM=4.60
29 E. C.B. (FULL OF DEBRIS)
RIM=4.80
30 E. C.B. (FULL OF DEBRIS)
RIM=4.80
31 E. C.B. (FULL OF DEBRIS)
RIM=4.80
32 E. C.B. (FULL OF DEBRIS)
RIM=4.80
33 E. C.B. (FULL OF DEBRIS)
RIM=4.80
34 E. C.B. (FULL OF WATER)
RIM=4.80
35 E. MH.
RIM=4.17
INV. 18" (N) = 0.18
INV. 18" (S) = 0.18
INV. 18" (W) = 1.11
36 E. MH.
RIM=4.17
INV. 18" (N) = 0.60
INV. 24" (W) = 0.33
37 E. MH.
RIM=4.48
INV. 18" (W) = 0.80
38 E. C.B.
RIM=4.48
INV. 18" (N) = 1.05
39 E. C.B.
RIM=4.57
INV. 12" (N) = 2.47
40 E. C.B.
RIM=4.57
INV. 18" (N) = 2.68
41 E. MH.
RIM=5.81
INV. 18" (N) = 2.08
42 E. C.B.
RIM=5.90
INV. 18" (N) = 2.25
43 E. C.I. (FULL OF DEBRIS)
RIM=5.90
INV.= 4.80
44 E. C.B.
RIM=5.90
INV.= 2.92
45 E. C.B. (FULL OF DEBRIS)
RIM=5.90
INV.= 1.58
46 E. C.B. (FULL OF DEBRIS)
RIM=5.90
INV.= 3.39
47 E. C.B.
RIM=5.17
INV. 18" (N) = 1.94
INV. 18" (S) = 1.94
48 E. C.B.
RIM=5.17
INV. 18" (N) = 1.97
INV. 18" (S) = 1.97
49 E. C.B.
RIM=5.17
INV. 18" (N) = 2.47
INV. 18" (S) = 2.47
50 E. C.B.
RIM=5.17
INV. 18" (N) = 2.51
INV. 18" (S) = 2.51
51 E. MH.
RIM=5.17
INV. 18" (N) = 1.37
52 E. C.B.
RIM=5.17
INV. 18" (N) = 2.50
53 E. MH.
RIM=5.62
INV. 12" (S) = 2.7
54 E. C.B. (FULL OF DEBRIS)
RIM=5.62
55 E. C.B. (FULL OF DEBRIS)
RIM=5.62
56 E. C.B. (FULL OF DEBRIS)
RIM=5.62
57 E. C.B. (FULL OF DEBRIS)
RIM=5.62
58 E. C.B. (FULL OF WATER)
RIM=5.62
59 E. MH.
RIM=5.17
INV. 18" (N) = 0.88
INV. 18" (S) = 0.78
60 E. MH.
RIM=5.17
INV. 18" (N) = 1.40
INV. 18" (S) = 1.40
61 E. MH.
RIM=5.17
INV. 18" (N) = 1.45
INV. 18" (S) = 1.45
62 E. MH.
RIM=5.17
INV. 18" (N) = 1.40
INV. 18" (S) = 1.40
63 E. MH.
RIM=5.17
INV. 18" (N) = 1.45
INV. 18" (S) = 1.45
64 E. C.B. (FULL OF DEBRIS)
RIM=5.17
INV.12" (N)= 2.40
65 E. C.B. (FULL OF DEBRIS)
RIM=5.17
INV.12" (N)= 2.05
66 E. C.B. (FULL OF DEBRIS)
RIM=5.17
INV. 12" (N)= 1.05
67 E. C.B.
RIM=5.17
INV. 12" (N) = 2.47
68 E. C.B.
RIM=5.17
INV. 18" (N)= 2.46
INV. 18" (S)= 2.51
69 E. C.B.
RIM=5.21
INV. 18" (N)= 2.01
70 E. C.B.
RIM=5.69
INV. 18" (N)= 1.56
INV. 12" (S)= 1.66
71 E. C.B.
RIM=5.40
INV. 18" (N)= 1.20
INV. 18" (S)= 1.30
72 E. MH.
RIM=5.59
INV. 18" (N)= 1.11
INV. 18" (S)= 1.06
73 E. C.B.
RIM=5.17
INV. 18" (N)= 0.63
INV. 18" (S)= 0.67
74 E. C.B.
RIM=5.17
INV. 18" (N)= 1.15
75 E. C.B.
RIM=5.00
INV. 18" (N)= 1.39
INV. 18" (S)= 0.67
76 E. C.B.
RIM=5.17
INV. 18" (N)= 0.48
77 E. C.B.
RIM=5.17
INV. 18" (N)= 0.86
78 E. C.B.
RIM=5.17
INV. 18" (N)= 1.80
INV. 18" (S)= 1.40
79 E. C.B.
RIM=5.34
INV. 18" (N)= 1.72
80 E. C.B.
RIM=5.78
INV. 18" (N)= 0.15
INV. 18" (S)= 0.55
81 E. C.B.
RIM=5.34
INV. 18" (N)= (-)0.06
INV. 18" (S)= 0.07
82 E. C.B.
RIM=5.34
INV. 18" (N)= (-)0.54
INV. 18" (S)= (-)0.64
83 E. C.B.
RIM=5.34
INV. 18" (N)= (-)1.21
INV. 18" (S)= (-)1.16
84 E. C.B.
RIM=5.79
INV. 18" (N)= (-)1.53
INV. 18" (S)= (-)1.53
85 ELECTRIC OULET
86 E. C.B.
RIM=5.34
INV. 18" (N)= 2.88
87 E. C.B. (FULL OF DEBRIS)
RIM=5.34
88 E. C.B.
RIM=5.34
INV. 18" (N)= 2.04
INV. 12" (S)= 2.14
89 ROOF DRAIN
90 PIPE END
INV.=0.26
91 PIPE END
INV.=0.64
92 PIPE END
INV.=0.26
93 PIPE END
INV.=0.30
94 E. C.B.
RIM=5.17
INV. 18" (N)= 0.87
INV. 18" (S)= 0.87
95 E. C.B.
RIM=5.17
INV. 18" (N)= 1.00
96 E. C.B.
RIM=5.17
INV. 18" (N)= 1.45
INV. 18" (S)= 1.38
97 E. C.B.
RIM=5.17
INV. 18" (N)= 1.47
INV. 18" (S)= 1.47
98 E. C.B.
RIM=5.17
INV. 18" (N)= 1.32
INV. 18" (S)= (ABANDONED/CAPPED OFF)
99 E. C.B.
RIM=5.17
INV. 18" (N)= (ABANDONED)
INV. 18" (S)= (ABANDONED/CAPPED OFF)

EXISTING ELECTRICAL SCHEDULE

1 E. ELEC. M.H.
RIM=5.17
2 E. ELEC. M.H.
RIM=5.05
3 E. ELEC. M.H.
RIM=5.17
4 E. ELEC. M.H.
RIM=11.15
5 E. ELEC. M.H.
RIM=10.06
6 E. ELEC. M.H.
RIM=10.13
7 E. ELEC. M.H.
RIM=9.91
8 E. ELEC. M.H.
RIM=9.78
9 E. ELEC. M.H.
RIM=9.78
10 E. ELEC. M.H.
RIM=9.78
11 E. ELEC. M.H.
RIM=9.78
12 E. ELEC. M.H.
RIM=5.37
13 E. ELEC. M.H.
RIM=5.30
14 E. ELEC. M.H.
RIM=5.34
15 E. ELEC. M.H.
RIM=5.34
16 E. ELEC. M.H.
RIM=5.34
17 E. ELEC. M.H.
RIM=5.34
18 E. ELEC. M.H.
RIM=5.34
19 E. ELEC. M.H.
RIM=5.34
20 E. ELEC. M.H.
RIM=5.63
21 E. ELEC. MH.
RIM=5.54
22 E. ELEC. MH.
RIM=5.54
23 E. ELEC. MH.
RIM=5.54

SURVEY NOTES

1. TOPOGRAPHIC SURVEY PREPARED BY C. ALLAN BAINFORTH, JR., ENGINEER - SURVEYOR LTD., DATED MARCH 2004

2. THE SURVEYED SIZES MAY GUARANTEE THE EXISTENCE/NONEXISTENCE, SIZE, TYPE AND/OR LOCATION OF UNDERGROUND UTILITIES. UTILITIES SHOWN ARE BASED ON ABOVE GROUND UTILITY STRUCTURES (i.e., VALVES, MANHOLES, ETC.) AND AVAILABLE UTILITY MAPS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

3. ELEVATIONS ARE IN FEET AND REFER TO NORTH AMERICAN VERTICAL DATUM (NAVD) 1988 AND ARE BASED ON NATIONAL GEODETIC SURVEY (NGS) CONTROL STATION A13. ELEV. = 5.64

4. TEMPORARY BENCHMARK (TBM) IS A "O" CUT ON TOP OF CURB INLET AS INDICATED. ELEVATION = 6.96

5. COORDINATES SHOWN REFER TO THE VIRGINIA STATE PLANE SYSTEM, SOUTH ZONE NAD 1983/93 AND ARE BASED ON NGS CONTROL STATIONS VETERAN AND 114 CORS. COORDINATE VALUES SHOWN ARE EXPRESSED IN U.S. SURVEY FEET.

6. FEMA FLOOD INSURANCE STUDY (FIS) 500 YEAR TOTAL STILLWATER FLOOD ELEVATION IS 8.8.

EXISTING TELEPHONE SCHEDULE

1 E. TEL. M.H.
RIM=7.10
2 E. TEL. M.H.
RIM=
3 E. TEL. M.H.
RIM=7.12
4 E. TEL. M.H.
RIM=7.68
5 E. TEL. M.H. (FIBER OPTIC)
RIM=8.01
6 E. TEL. M.H.
RIM=8.68
7 E. TEL. M.H. (FIBER OPTIC)
RIM=8.21
8 E. TEL. M.H.
RIM=3.57
9 E. TEL. M.H.
RIM=3.57
10 E. TEL. M.H.
RIM=3.57
11 E. TEL. M.H.
RIM=3.57
12 E. TEL. M.H. (FIBER OPTIC)
RIM=3.57
13 E. TEL. M.H.
RIM=3.57
14 E. TEL. M.H.
RIM=3.57
15 E. TEL. M.H.
RIM=3.57
16 E. TEL. M.H. (FIBER OPTIC)
RIM=3.57
17 E. TEL. M.H. (FIBER OPTIC)
RIM=3.57
18 E. TEL. M.H.
RIM=3.57
19 E. TEL. M.H.
RIM=3.57
20 E. TEL. M.H. (FIBER OPTIC)
RIM=3.57
21 E. TEL. M.H.
RIM=3.57
22 E. TEL. M.H. (FIBER OPTIC)
RIM=3.57
23 E. TEL. M.H.
RIM=3.57
24 E. TEL. M.H.
RIM=3.57
25 E. TEL. M.H.
RIM=3.57
26 E. TEL. M.H.
RIM=3.57
27 E. TEL. M.H.
RIM=3.57
28 E. TEL. M.H.
RIM=3.57
29 E. TEL. M.H.
RIM=3.57
30 E. TEL. M.H.
RIM=3.57
31 E. TEL. M.H.
RIM=3.57
32 E. TEL. M.H.
RIM=3.57
33 E. TEL. M.H.
RIM=3.57
34 E. TEL. M.H.
RIM=3.57
35 E. TEL. M.H.
RIM=3.57
36 E. TEL. M.H.
RIM=3.57
37 E. TEL. M.H.
RIM=3.57
38 E. TEL. M.H.
RIM=3.57
39 E. TEL. M.H.
RIM=3.57
40 E. TEL. M.H.
RIM=3.57
41 E. TEL. M.H.
RIM=3.57
42 E. TEL. M.H.
RIM=3.57
43 E. TEL. M.H.
RIM=3.57
44 E. TEL. M.H.
RIM=3.57
45 E. TEL. M.H.
RIM=3.57
46 E. TEL. M.H.
RIM=3.57
47 E. TEL. M.H.
RIM=3.57
48 E. TEL. M.H.
RIM=3.57
49 E. TEL. M.H.
RIM=3.57
50 E. TEL. M.H.
RIM=3.57
51 E. TEL. M.H.
RIM=3.57
52 E. TEL. M.H.
RIM=3.57
53 E. TEL. M.H.
RIM=3.57
54 E. TEL. M.H.
RIM=3.57
55 E. TEL. M.H.
RIM=3.57
56 E. TEL. M.H.
RIM=3.57
57 E. TEL. M.H.
RIM=3.57
58 E. TEL. M.H.
RIM=3.57
59 E. TEL. M.H.
RIM=3.57
60 E. TEL. M.H.
RIM=3.57
61 E. TEL. M.H.
RIM=3.57
62 E. TEL. M.H.
RIM=3.57
63 E. TEL. M.H.
RIM=3.57
64 E. TEL. M.H.
RIM=3.57
65 E. TEL. M.H.
RIM=3.57
66 E. TEL. M.H.
RIM=3.57
67 E. TEL. M.H.
RIM=3.57
68 E. TEL. M.H.
RIM=3.57
69 E. TEL. M.H.
RIM=3.57
70 E. TEL. M.H.
RIM=3.57
71 E. TEL. M.H.
RIM=3.57
72 E. TEL. M.H.
RIM=3.57
73 E. TEL. M.H.
RIM=3.57
74 E. TEL. M.H.
RIM=3.57
75 E. TEL. M.H.
RIM=3.57
76 E. TEL. M.H.
RIM=3.57
77 E. TEL. M.H.
RIM=3.57
78 E. TEL. M.H.
RIM=3.57
79 E. TEL. M.H.
RIM=3.57
80 E. TEL. M.H.
RIM=3.57
81 E. TEL. M.H.
RIM=3.57
82 E. TEL. M.H.
RIM=3.57
83 E. TEL. M.H.
RIM=3.57
84 E. TEL. M.H.
RIM=3.57
85 E. TEL. M.H.
RIM=3.57
86 E. TEL. M.H.
RIM=3.57
87 E. TEL. M.H.
RIM=3.57
88 E. TEL. M.H.
RIM=3.57
89 E. TEL. M.H.
RIM=3.57
90 E. TEL. M.H.
RIM=3.57
91 E. TEL. M.H.
RIM=3.57
92 E. TEL. M.H.
RIM=3.57
93 E. TEL. M.H.
RIM=3.57
94 E. TEL. M.H.
RIM=3.57
95 E. TEL. M.H.
RIM=3.57
96 E. TEL. M.H.
RIM=3.57
97 E. TEL. M.H.
RIM=3.57
98 E. TEL. M.H.
RIM=3.57
99 TELEPHONE PEDESTAL
100 EMERGENCY CALL BOX

EXISTING MANHOLE SCHEDULE

1 E. M.H.
RIM=7.00
2 E. M.H.
RIM=6.18
3 E. M.H.
RIM=6.14
4 E. M.H. (N)
RIM=8.33
5 E. M.H. (FIBER OPTIC)
RIM=8.68
6 E. M.H. (FIBER OPTICS)
RIM=8.68
7 E. M.H. (FIBER OPTICS)
RIM=4.14
8 TRAFFIC CONTOL HANDHOLE
RIM=4.67
9 UTILITY HANDHOLE
RIM=4.21
10 E. M.H. (FIBER OPTICS)
RIM=5.42
11 E. M.H. (FIBER OPTICS)
RIM=5.42

EXISTING STORM SCHEDULE

A E. M.H.
RIM=10.61
B E. M.H.
RIM=

EXISTING CABLE SCHEDULE

A CABLE PEDESTAL
B CABLE BOX

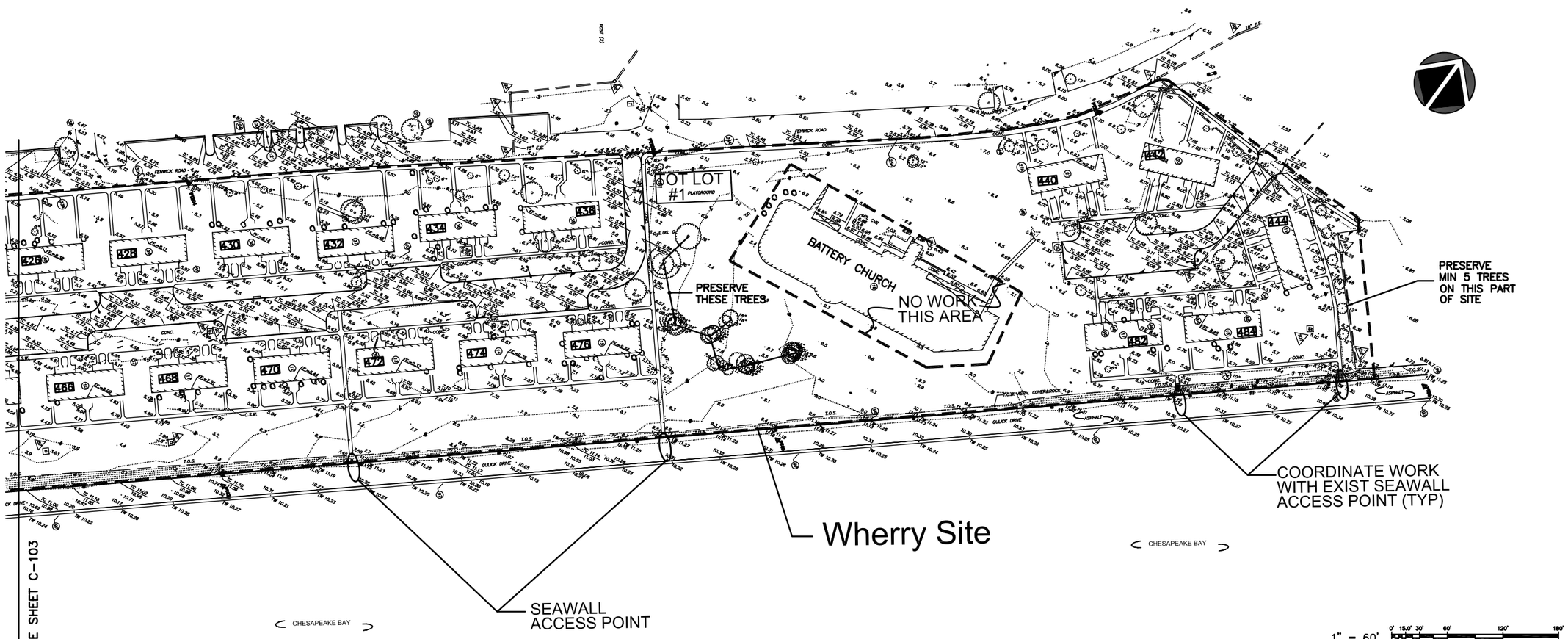
EXISTING WATER SCHEDULE

1 SMALL WATER FOUNTAIN
2 WATER METER VAULT
3 WATER VAULT
4 WATER VAULT
5 WATER FAUCET
6 FIRE SHUT OFF VALVE

PT.	NORTHING	EASTING	ELEV.	DESC.
1	3531992.70	12121176.56	10.50	PK NAIL
13	3531553.79	12121451.14	10.64	PK NAIL
14	3533253.31	12124231.12	10.61	PK NAIL
19	3533767.32	12124855.87	10.70	PK NAIL
23	3534347.43	12125007.63	10.70	PK NAIL
30	3534631.32	12125134.56	10.49	PK NAIL
37	3535508.44	12125312.10	10.84	PK NAIL
43	3536088.84	12125464.15	10.87	PK NAIL
49	3536669.23	12125616.22	10.71	PK NAIL
56	3537348.52	12125793.65	10.82	PK NAIL
200	3537115.01	12125398.83	8.79	DRILL HOLE
202	3536846.44	12125281.05	4.78	DRILL HOLE
204	3536182.53	12125144.18	5.03	DRILL HOLE
206	3535859.50	12124970.76	5.68	PK NAIL
208	3535443.91	12124809.84	5.86	DRILL HOLE
210	3534475.87	12124631.52	8.07	DRILL HOLE
212	3533824.81	12124491.52	5.48	IRON PIN
214	3533202.80	12124291.45	5.71	IRON PIN
215	3532921.78	12124353.48	6.17	IRON PIN
216	3532852.01	12124230.40	17.21	IRON PIN

LEGEND

	EXISTING (E.)
TOP OF CURB OR CONCRETE (TC) ELEVATION	10.57
ELEVATION OF GUTTER, PAVEMENT OR GROUND	10.57
SPOT ELEVATION	×
BITUMINOUS PAVEMENT	
BUILDING	
BUSH	
CONCRETE (CONC.)	CONC.
CURB	
GURB AND GUTTER	
FLOWER BED (F.B.)	F.B.
FENCE	
SIGN	
TREE	
GAS MAIN	E" E. GAS
OVERHEAD (OH.) LINE	E. OH. LINE
SANITARY (SAN.) SEWER	8" E. SAN.
STORM (S.) SEWER	18" E.S.
UNDERGROUND (UG.) ELECTRIC (ELEC.)	E. UG. ELEC.
UNDERGROUND (UG.) TELEPHONE (TEL.)	E. UG. TEL.
WATER (W.) MAIN	6" E.W.
BOLLARD (BOLL.)	BOLL.
CATCH BASIN (C.B.)	
CLEAN OUT (C.O.)	C.O.
CURB INLET (C.I.)	
FIRE HYDRANT (F.H.)	
GAS VALVE (G.V.)	1 1 G.V.
GUY WIRE	
LIGHT POLE	E. MH.
MANHOLE (MH.)	
METAL (MTL.) COVER (COVR.)	
POST INDICATOR VALVE (P.I.V.)	
ROOF DRAIN (R.D.)	= R.D.
UTILITY POLE	
CLOTHES LINE POLE	
WATER VALVE (W.V.)	
ABANDONED	ABAND.
BARBED WIRE	B.W.
CHAIN LINK FENCE	C.L.F.
FRESH WATER	F.W.
HANDICAP	H.C.
INACCESSIBLE	I/A
METAL	MTL.
PEDESTAL	PED.
STEAM	STM.
WITH	W/
CONCRETE SIDE WALK	CSW



US Army Corps of Engineers Norfolk District

Norfolk District US Army Corps of Engineers Norfolk, Virginia

22 DECEMBER 2004

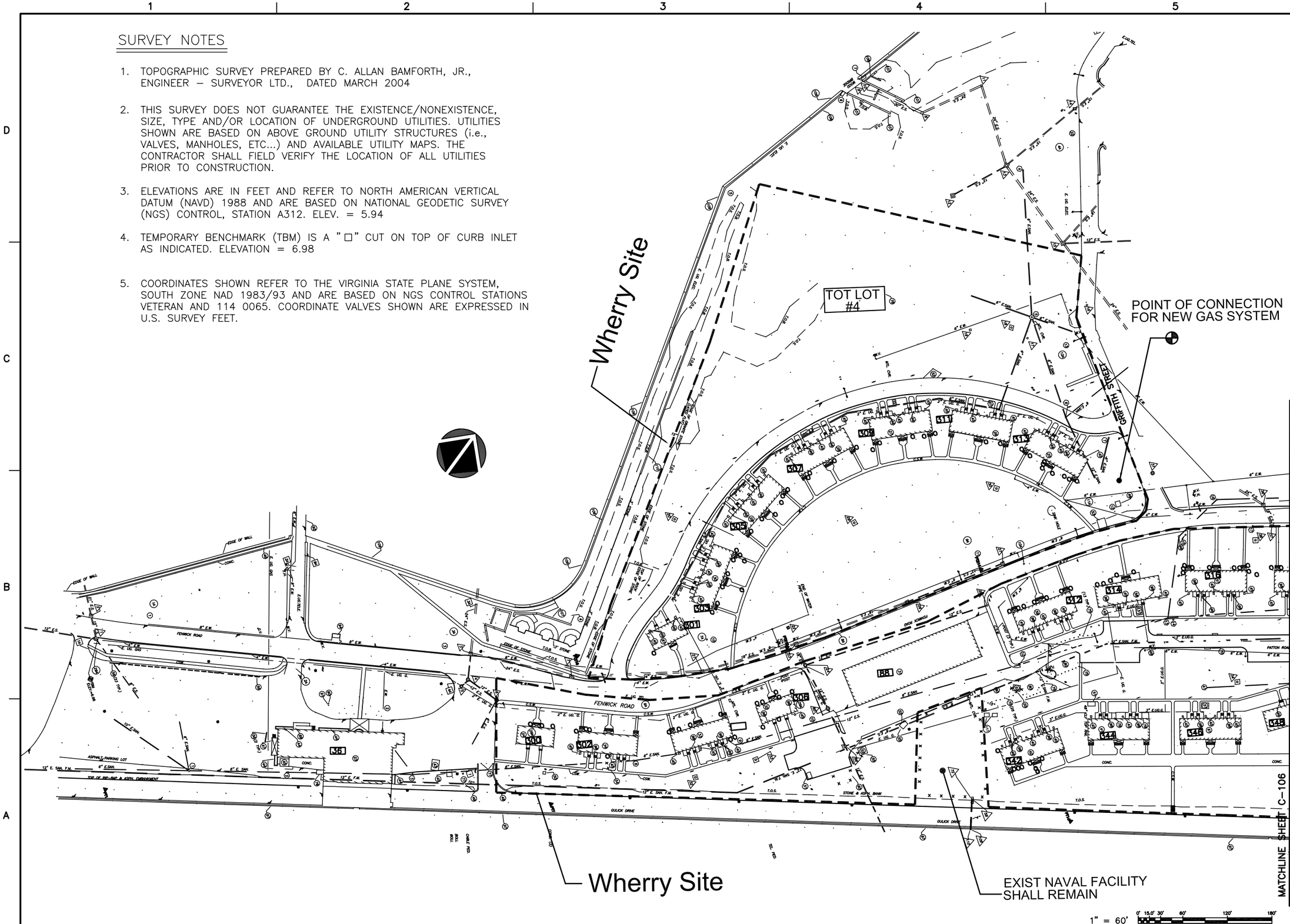
WHERRY FAMILY HOUSING REPLACEMENT
FORT MONROE
HAMPTON, VA

SITE PLAN

C-104
SHEET OF

SURVEY NOTES

1. TOPOGRAPHIC SURVEY PREPARED BY C. ALLAN BAMFORTH, JR., ENGINEER – SURVEYOR LTD., DATED MARCH 2004
2. THIS SURVEY DOES NOT GUARANTEE THE EXISTENCE/NONEXISTENCE, SIZE, TYPE AND/OR LOCATION OF UNDERGROUND UTILITIES. UTILITIES SHOWN ARE BASED ON ABOVE GROUND UTILITY STRUCTURES (i.e., VALVES, MANHOLES, ETC...) AND AVAILABLE UTILITY MAPS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
3. ELEVATIONS ARE IN FEET AND REFER TO NORTH AMERICAN VERTICAL DATUM (NAVD) 1988 AND ARE BASED ON NATIONAL GEODETIC SURVEY (NGS) CONTROL, STATION A312. ELEV. = 5.94
4. TEMPORARY BENCHMARK (TBM) IS A "□" CUT ON TOP OF CURB INLET AS INDICATED. ELEVATION = 6.98
5. COORDINATES SHOWN REFER TO THE VIRGINIA STATE PLANE SYSTEM, SOUTH ZONE NAD 1983/93 AND ARE BASED ON NGS CONTROL STATIONS VETERAN AND 114 0065. COORDINATE VALVES SHOWN ARE EXPRESSED IN U.S. SURVEY FEET.



US Army Corps of Engineers
Norfolk District

DESIGNED FAZ	CHECKED BOT	DATE 22 DEC 04	
DRAWN NAP	SUBMITTED TLD	SCALE AS SHOWN	
PROJECT NO. 60772		NORFOLK DISTRICT FILE NO. FM 346-1.7	
DRAWING NO. 711-14-14		DESCRIPTION NO.	
LAST CHANGE ON:		Plot scale: 1:1	
File name:			

Norfolk District
US Army Corps of Engineers
Norfolk, Virginia

22 DECEMBER 2004

WHERRY FAMILY HOUSING REPLACEMENT
FORT MONROE
HAMPTON, VA

UTILITIES SITE PLAN

C-105
SHEET OF

REVDATE

EXISTING CONDITIONS

1 STY. FRAME #1-176
2 6" WOOD FENCE
3 1 STY. STUCO #1 PATTON RD.
4 1 STY. FRAME #172
5 1 STY. FRAME #174
6 1 STY. FRAME #175
7 YOUTH AWARD 1 STY. FRAME #96 (KAPERNICK RD.)
8 BATTERY DE RUSSY CONC. GUN EMPLACEMENT
9 6"x6" WOOD BORDER
10 2 STY. BRICK/WHTL #464
11 2 STY. BRICK/WHTL #466
12 2 STY. BRICK/WHTL #468
13 2 STY. BRICK/WHTL #470
14 2 STY. BRICK/WHTL #472
15 2 STY. BRICK/WHTL #474
16 2 STY. BRICK/WHTL #476
17 BATTERY CHURCH CONC. GUN EMPLACEMENT
18 BLDG. #482
19 BLDG. #484
20 BLDG. #444
21 BLDG. #442
22 BLDG. #440
23 MAILBOX
24 1 STY. #300-A
25 1 STY. BRICK #300
26 BLDG. #313
27 BLDG. #311
28 BLDG. #309
29 BLDG. #307
30 BLDG. #305
31 BLDG. #303
32 MTL. WAREHOUSE BLDG. #96
33 BLDG. #306
34 BLDG. #304
35 BLDG. #302
36 BLDG. #436
37 BLDG. #434
38 BLDG. #432
39 BLDG. #430
40 BLDG. #428
41 BLDG. #426
42 BLDG. #424
43 BLDG. #342
44 WOOD SHED
45 .92' BRICK PLANTER
46 CONC. PAD (AIR CONDITION UNIT)
47 3" STEEL RAIL
48 COVERED CONC. LOADING DOCK
49 CONC. PAD (TRANSFORMER)
50 1.2' CONC. WALL
51 CONC. PAD (TEL. CABINET)
52 METAL SHED
53 CONC. PAD (DUMPSTER)
54 CONC. PAD (BUS STOP)
55 48" WIRE FENCE
56 6" WOOD FENCE
57 PARKING BLOCK
58 BLDG. #316
59 BLDG. #314
60 BLDG. #312
61 BRICK COLUMN
62 BLDG. #348
63 BLDG. #346
64 BLDG. #350
65 BLDG. #352
66 BLDG. #354
67 BLDG. #356
68 BLDG. #358
69 BLDG. #360
70 6" CLF. TOP RAIL W/ 1' STRAND B.W.
71 CONC. PAD
72 BLDG. #334
73 BLDG. #332
74 BLDG. #330
75 BLDG. #318
76 WOOD POST
77 CONC. STOOP & RAMP
78 METAL POST
79 .5' WOOD BORDER
80 BRICK PATIO
81 GRAVEL PARKING
82 BLDG. #462
83 BLDG. #460
84 BLDG. #458
85 BLDG. #456
86 BLDG. #454
87 BLDG. #452
88 BLDG. #301
89 BLDG. #370 CHILD DIVISION CENTER
90 HANDICAP RAMP
91 2" OIL TANK VENT
92 2" OIL FILL
93 COVERED BRIDGE OVER 12" E.SAN. PUMP STATION
94 BUS STATION
95 1' CONC. WALL
96 .6' CONC. WALL
97 3'.0 CONC. SEAWALL
98 4" IRON PIPE W/ CAP
99 METAL HOT BOX
100 UNKNOWN PEDESTAL
101 UNKNOWN METAL STRUCTURE
102 GAS METERS
103 WOODEN FENCE
104 3" SUPPORT POST
105 6"x6" SUPPORT POST
106 3.5" HANDRAIL
107 2' STONEWALL
108 1.3' STONEWALL
109 3' STONE WALL
110 1.5' STONE WALL
111 CONC. PAD W/ ELEC. PANEL
112 60" WOOD FENCE
113 60" CLF.
114 CONCRETE SWALE
115 BLDG. #462
116 CONC. SWALE
117 WOOD WALK
118 2" PIPE RAILING
119 BARRIER
120 6" CLF.
121 BRASS DISK
122 6" METAL COVER
123 BUS STOP KIOSK
124 DUGOUT
125 FOUL POST
126 FLOWER BED

EXISTING SANITARY SCHEDULE

1 E. SAN. M.H. RIM=10.13 INV. 8" (N) = 3.53 INV. 8" (SW) = 3.53 INV. 12" (SW) = 3.41 INV. 8" (SE) = 3.73
2 E. SAN. M.H. RIM=9.34 INV. 8" (N) = 1.21 INV. 8" (S) = 1.23
3 E. SAN. M.H. RIM=9.34 INV. 8" (N) = 2.44 INV. 8" (S) = 2.66 INV. 4" (SW) = 2.79
4 E. SAN. M.H. RIM=9.26 INV. 8" (N) = 0.71
5 E. SAN. M.H. RIM=9.77 INV. 8" (N) = 0.57 INV. 8" (S) = 0.53 INV. 8" (SW) = 0.27
6 E. SAN. M.H. RIM=9.34 INV. 8" (N) = 1.72 INV. 8" (S) = 1.62 INV. 8" (SW) = 1.62
7 E. SAN. M.H. RIM=9.81 INV. 12" (SE) = 1.41
8 E. SAN. M.H. RIM=9.77 INV. 8" (N) = 1.78 INV. 8" (S) = 1.83
9 E. SAN. M.H. RIM=9.17 INV. 8" (N) = 1.37 INV. 8" (SE) = 1.38
10 E. SAN. M.H. RIM=9.43 INV. 8" (N) = 1.06 INV. 8" (S) = 1.03
11 E. SAN. M.H. RIM=9.90 INV. 8" (N) = 1.08 INV. 8" (S) = 1.03
12 E. SAN. M.H. RIM=9.85 INV. 8" (N) = (-)0.05 INV. 8" (S) = 0.04
13 E. SAN. M.H. RIM=9.77 INV. 8" (N) = (-)0.80 INV. 8" (SW) = (-)0.77
14 E. SAN. M.H. (FULL OF WATER)
15 E. SAN. M.H. (ABANDONED/FULL OF WATER AND DEBRIS)
16 E. SAN. M.H. RIM=9.77 INV. 8" (SE) = (-) 2.56 INV. 8" (SW) = (-) 1.56
17 E. SAN. M.H. (ABANDONED)
18 E. SAN. M.H. RIM=9.06 INV. 8" (N) = (-) 2.12 INV. 8" (S) = (-) 2.12
19 E. SAN. M.H. RIM=9.37 INV. 8" (N) = (-) 1.78 INV. 8" (S) = (-) 1.81
20 E. SAN. M.H. RIM=9.13 INV. 8" (N) = 1.53 INV. 8" (S) = 1.81
21 E. SAN. M.H. RIM=9.79 INV. 8" (N) = (-)1.08 INV. 8" (SW) = (-)1.04 INV. 8" (SE) = (-)0.98
22 E. SAN. M.H. RIM=9.79 INV. 8" (N) = (-)0.39 INV. 8" (SE) = (-)0.39
23 E. SAN. M.H. RIM=9.60 INV. 8" (N) = 1.82 INV. 8" (S) = 1.87 INV. 8" (SW) = 2.52
24 E. SAN. M.H. RIM=9.79 INV. 8" (N) = (-) 1.85 INV. 8" (S) = (-) 1.75
25 E. SAN. M.H. RIM=9.77 INV. 8" (N) = (-)0.40 INV. 8" (S) = (-)0.34
26 E. SAN. M.H. RIM=9.30 INV. 8" (N) = (-)0.80 INV. 12" (SE) = (-)0.65 INV. 12" (SW) = (-)0.00 INV. 12" (N) = (-)0.30
27 E. SAN. M.H. RIM=9.34 INV. 8" (N) = (-)1.16 INV. 8" (S) = (-)1.06 INV. 8" (SW) = (-)0.95
28 E. SAN. M.H. RIM=9.77 INV. 8" (N) = (-)1.06 INV. 8" (SW) = (-)1.06 INV. 8" (SE) = (-)1.06
29 E. SAN. M.H. RIM=9.43 INV. 8" (N) = 0.63 INV. 8" (N) = 0.04
30 E. SAN. M.H. (ABANDONED) RIM=9.22 INV. 8" (N) = 1.03
31 E. SAN. M.H. RIM=9.06 INV. 8" (N) = 1.14 INV. 8" (N) = 1.24
32 E. SAN. M.H. RIM= INV. 8" (N) = (-)0.77
33 E. SAN. M.H. RIM=9.17 INV. 12" (SE) = (-)0.38 INV. 24" (SE) = (-)0.28 INV. 12" (SW) = (-)0.30
34 E. SAN. M.H. RIM=9.17 INV. 8" (N) = 0.11 INV. 8" (N) = (-)0.04
35 E. SAN. M.H. RIM=9.17 INV. 8" (N) = (-)0.47 INV. 8" (N) = (-)0.57
36 E. SAN. M.H. RIM=9.17 INV. 8" (N) = (-)0.03 INV. 8" (N) = (-)0.03
37 E. SAN. M.H. RIM=9.13 INV. 8" (N) = (-)0.49 INV. 8" (N) = (-)0.49
38 E. SAN. M.H. RIM=9.79 INV. 8" (N) = (-) 2.66 INV. 8" (N) = (-) 2.91
39 E. SAN. M.H. RIM=9.79 INV. 8" (N) = (-) 3.29 INV. 8" (N) = (-) 3.17
40 E. SAN. M.H. RIM=9.79 INV. 8" (N) = (-) 3.66
41 E. SAN. M.H. RIM=9.79 INV. 8" (N) = (-)3.79 INV. 8" (N) = (-)3.72
42 E. SAN. M.H. RIM=9.79 INV. 8" (N) = (-)3.48
43 E. SAN. M.H. (COVERED/P.A.) RIM=9.77 INV. 8" (N) = 0.86 INV. 8" (S) = 0.78 INV. 8" (S) = 0.71 INV. 10" (N) = 1.11
44 E. SAN. M.H. RIM=9.77 INV. 8" (N) = 0.04 INV. 8" (N) = 0.14
45 E. SAN. M.H. RIM=9.14 INV. 8" (N) = 0.69 INV. 8" (N) = 0.74
46 SANITARY CLEANOUT RIM=9.30
47 E. SAN. M.H. RIM=9.30 INV. 8" (N) = 0.69 INV. 8" (N) = 0.74
48 UNKNOWN SAN. STRUCTURE
49 METAL COVER
50 E. SAN. M.H. (N.F.) INV. (N) = N/A
51 E. SAN. M.H. (ABANDONED) RIM=9.33
52 E. SAN. M.H. (ABANDONED) RIM=9.33
53 E. SAN. M.H. RIM=9.33 INV. 8" (N) = 1.03
54 E. SAN. M.H. (ABANDONED) RIM=9.33
55 E. SAN. M.H. (ABANDONED) RIM=9.33
56 E. SAN. M.H. (ABANDONED) RIM=9.33
57 E. SAN. M.H. (ABANDONED) RIM=9.33
58 E. SAN. M.H. (FULL OF DEBRIS) RIM=9.77 INV. 12" (N) = 2.52 INV. 12" (NE) = 2.52 INV. 12" (SE) = 2.52 INV. 12" (SW) = 2.52
59 E. SAN. M.H. RIM=9.77 INV. 12" (N) = 1.03
60 E. SAN. M.H. RIM=9.06 INV. 12" (N) = (-)0.05 INV. 12" (S) = 0.04
61 E. SAN. M.H. RIM=9.77 INV. 12" (N) = (-)0.80 INV. 12" (S) = (-)0.77
62 E. SAN. M.H. (FULL OF WATER)
63 E. SAN. M.H. RIM=9.77 INV. 12" (N) = (-)0.38 INV. 24" (N) = (-)0.28 INV. 12" (S) = (-)0.30
64 E. SAN. M.H. RIM=9.77 INV. 12" (N) = 0.26 INV. 12" (S) = 0.14
65 E. SAN. M.H. (ABANDONED) RIM=9.77 INV. 12" (N) = (-)0.47 INV. 12" (S) = (-)0.57
66 E. SAN. M.H. RIM=9.77 INV. 12" (N) = (-)0.03 INV. 12" (S) = (-)0.03
67 E. SAN. M.H. RIM=9.77 INV. 12" (N) = 2.50
68 E. SAN. M.H. RIM=9.30 INV. 12" (N) = 2.7
69 E. SAN. M.H. RIM=9.06 INV. 12" (N) = 0.16
70 E. SAN. M.H. RIM=9.77 INV. 12" (N) = 1.11
71 E. SAN. M.H. RIM=9.77 INV. 12" (N) = 0.60 INV. 24" (SW) = 0.53
72 E. SAN. M.H. RIM=9.77 INV. 12" (N) = 0.80
73 E. SAN. M.H. RIM=9.48 INV. 12" (N) = 0.56
74 E. SAN. M.H. RIM=9.03 INV. 12" (N) = 2.68
75 E. SAN. M.H. RIM=9.77 INV. 12" (N) = 2.08
76 E. SAN. M.H. RIM=9.77 INV. 12" (N) = 1.26
77 E. SAN. M.H. RIM=9.60 INV. 12" (N) = 2.25
78 E. SAN. M.H. RIM=9.77 INV. 12" (N) = 0.63
79 E. SAN. M.H. RIM=9.77 INV. 12" (N) = 2.92 INV. 12" (S) = 2.91
80 E. SAN. M.H. RIM=9.77 INV. 12" (N) = 1.28
81 E. SAN. M.H. RIM=9.77 INV. 12" (N) = 1.20 INV. 12" (S) = 1.11
82 E. SAN. M.H. RIM=9.77 INV. 12" (N) = 1.26
83 E. C.B. RIM=9.87 INV. 12" (N) = 0.63 INV. 15" (SE) = 0.67 INV. 15" (SW) = 0.67
84 E. C.B. RIM=11.15 INV. 15" (N) = 0.50
85 E. C.B. RIM=10.09 INV. 15" (N) = 0.61 INV. 15" (SE) = 0.40
86 E. C.B. RIM=9.53 INV. 15" (N) = 1.39 INV. 15" (SE) = 1.34 INV. 15" (SW) = 1.19
87 E. C.B. RIM=9.53 INV. 15" (N) = 1.34 INV. 15" (SE) = 1.19
88 E. C.B. RIM=9.53 INV. 15" (N) = 1.92 INV. 15" (SW) = 1.72
89 E. C.B. RIM=9.71 INV. 15" (N) = 0.95
90 E. C.B. RIM=9.78 INV. 15" (N) = 0.86
91 E. C.B. RIM=9.50 INV. 15" (N) = 0.15 INV. 15" (SE) = 0.50
92 E. C.B. RIM=9.50 INV. 15" (N) = 3.61 INV. (NE) = 3.56
93 E. C.B. RIM=9.17 INV. 15" (N) = 3.71 INV. 15" (NE) = 3.76
94 E. C.B. RIM=9.01 INV. 12" (NW) = 3.79
95 E. C.B. RIM=9.53 INV. 15" (N) = 1.94 INV. 15" (SE) = 1.82 INV. 15" (SW) = 1.85
96 E. C.B. RIM=9.43 INV. 15" (N) = (-)1.53 INV. 15" (SE) = (-)1.51
97 E. C.B. RIM=9.79 INV. 15" (N) = 2.05 INV. 15" (S)= 2.05
98 E. C.B. RIM=9.01 INV. 15" (N) = 2.88 INV. 15" (SE) = 2.81 INV. 15" (SW) = 2.88
99 E. C.B. RIM=9.79 INV. 15" (N) = 3.09 INV. 15" (SE) = 1.61 INV. 15" (SW) = 1.68
100 E. C.B. RIM=9.43 INV. 15" (N) = 1.43 INV. 15" (SE) = 1.36
101 E. C.B. RIM=9.79 INV. 15" (N) = 1.47 INV. 15" (SE) = 1.47
102 E. C.B. RIM=9.53 INV. 15" (N) = 3.33 INV. 15" (N)= 1.20 INV. 15" (SE) = 1.30
103 E. C.B. RIM=9.79 INV. 15" (N) = 1.11 INV. 15" (SE) = 1.26
104 E. C.B. (FULL OF DEBRIS) RIM=9.79 INV. 15" (N) = 2.56
105 E. C.B. RIM=9.79 INV. 15" (N) = 1.97 INV. 15" (SE) = 1.93 INV. 15" (SW) = 0.95
106 E. C.B. RIM=9.64 INV. 15" (N) = 1.95
107 E. C.B. RIM=9.79 INV. 15" (N) = 1.83 INV. 15" (N) = 1.78 INV. 15" (SE) = 1.78
108 E. M.H. RIM=9.79 INV. 15" (S) = 2.02
109 E. C.B. RIM=9.74 INV. 12" (N) = 1.87 INV. 12" (SE) = 1.83 INV. 12" (SW) = 1.83
110 E. M.H. RIM=9.30 INV. 12" (SW) = V/A
111 E. M.H. RIM=9.79 INV. 15" (N) = 1.60 INV. 15" (SE) = 1.57
112 E. M.H. RIM=9.79 INV. 15" (N) = 1.40 INV. 15" (SE) = 1.40
113 E. C.B. RIM=9.20 INV. 15" (N) = 1.40 INV. 15" (SE) = 1.45
114 E. C.B. RIM=9.79 INV. 15" (N) = 1.40 INV. 15" (SE) = 1.45
115 E. C.B. (FULL OF DEBRIS) RIM=9.79 INV. 12" (N) = 2.40
116 E. C.B. (FULL OF DEBRIS) RIM=9.79 INV. 12" (SW) = 2.05
117 E. C.B. (FULL OF DEBRIS) RIM=9.79 INV. 15" (N) = 1.56
118 E. C.B. RIM=9.79 INV. 15" (N) = 2.47
119 E. C.B. RIM=9.79 INV. 15" (N) = 2.46 INV. 15" (SE) = 2.51
120 E. C.B. RIM=9.79 INV. 15" (N) = 2.01
121 E. C.B. RIM=9.79 INV. 15" (N) = 1.56 INV. 15" (SE) = 1.88
122 E. C.B. RIM=9.79 INV. 15" (N) = 1.20 INV. 15" (SE) = 1.30
123 E. M.H. RIM=9.52 INV. 15" (N) = 1.11 INV. 15" (SE) = 1.26
124 E. C.B. (F/A) RIM=9.79
125 E. C.B. (F/A) RIM=9.79
126 E. C.B. (CAN NOT OPEN) RIM=9.79
127 E. C.B. (FULL OF DEBRIS) RIM=9.79
128 E. C.B. RIM=9.79 INV. 15" (N) = 0.86
129 E. C.B. RIM=9.79 INV. 15" (N) = 1.80 INV. 15" (SE) = 1.40
130 E. C.B. RIM=9.79 INV. 15" (N) = 1.92 INV. 15" (SE) = 1.92
131 E. C.B. RIM=9.79 INV. 15" (N) = 0.95
132 E. C.B. RIM=9.79 INV. 15" (N) = (-)0.06 INV. 15" (SE) = 0.07
133 E. C.B. RIM=9.79 INV. 15" (N) = (-)0.54 INV. 15" (SE) = (-)0.64
134 E. C.B. RIM=9.79 INV. 15" (N) = (-)1.21 INV. 15" (SE) = (-)1.16
135 E. C.B. RIM=9.79 INV. 15" (N) = (-)1.51 INV. 15" (SE) = (-)1.51
136 E. C.B. RIM=9.79 INV. 15" (N) = 2.88
137 E. C.B. (FULL OF DEBRIS) RIM=9.79
138 E. C.B. (FULL OF DEBRIS) RIM=9.79 INV. 15" (N)= 2.88
139 E. C.B. RIM=9.79 INV. 15" (N) = 2.04 INV. 15" (SE) = 2.14
140 E. C.B. (FULL OF DEBRIS) RIM=9.79
141 ROOF DRAIN
142 PIPE END INV.=8.29
143 PIPE END INV.=8.26
144 PIPE END INV.=8.48
145 PIPE END INV.=8.98
146 PIPE END INV.=8.36
147 PIPE END INV.=8.30
148 PIPE END INV.=8.30
149 PIPE END INV.=8.30
150 PIPE END INV.=8.30
151 PIPE END INV.=8.30
152 PIPE END INV.=8.30
153 PIPE END INV.=8.30
154 PIPE END INV.=8.30
155 PIPE END INV.=8.30
156 PIPE END INV.=8.30
157 PIPE END INV.=8.30
158 PIPE END INV.=8.30
159 PIPE END INV.=8.30
160 PIPE END INV.=8.30
161 PIPE END INV.=8.30
162 PIPE END INV.=8.30
163 PIPE END INV.=8.30
164 PIPE END INV.=8.30
165 PIPE END INV.=8.30
166 PIPE END INV.=8.30
167 PIPE END INV.=8.30
168 PIPE END INV.=8.30
169 PIPE END INV.=8.30
170 PIPE END INV.=8.30
171 PIPE END INV.=8.30
172 PIPE END INV.=8.30
173 PIPE END INV.=8.30
174 PIPE END INV.=8.30
175 PIPE END INV.=8.30
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177 PIPE END INV.=8.30
178 PIPE END INV.=8.30
179 PIPE END INV.=8.30
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181 PIPE END INV.=8.30
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187 PIPE END INV.=8.30
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190 PIPE END INV.=8.30
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194 PIPE END INV.=8.30
195 PIPE END INV.=8.30
196 PIPE END INV.=8.30
197 PIPE END INV.=8.30
198 PIPE END INV.=8.30
199 PIPE END INV.=8.30
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201 PIPE END INV.=8.30
202 PIPE END INV.=8.30
203 PIPE END INV.=8.30
204 PIPE END INV.=8.30
205 PIPE END INV.=8.30
206 PIPE END INV.=8.30
207 PIPE END INV.=8.30
208 PIPE END INV.=8.30
209 PIPE END INV.=8.30
210 PIPE END INV.=8.30
211 PIPE END INV.=8.30
212 PIPE END INV.=8.30
213 PIPE END INV.=8.30
214 PIPE END INV.=8.30
215 PIPE END INV.=8.30
216 PIPE END INV.=8.30

EXISTING STORM SCHEDULE

1 E. C.B. RIM=9.04 INV. 12" (N) = 2.52 INV. 12" (NE) = 2.52 INV. 12" (SE) = 2.52 INV. 12" (SW) = 2.52
2 E. C.B. RIM=9.53 INV. 12" (N) = 2.58 INV. 12" (S) = 1.08
3 E. C.B. RIM=9.77 INV. 12" (N) = (-)0.38 INV. 24" (NE) = (-)0.28 INV. 12" (SW) = (-)0.30
4 E. C.B. RIM=9.79 INV. 12" (N) = 0.26 INV. 12" (SE) = 3.06 INV. 12" (SW) = 3.14
5 E. C.B. RIM=9.79 INV. 12" (N) = 3.68
6 E. C.B. RIM=9.77 INV. 24" (NE) = 5.50 INV. 12" (SW) = 5.40
7 E. C.B. RIM=9.79 INV. 12" (N) = 0.01 INV. 12" (SE) = 0.01
8 E. C.B. RIM=9.79 INV. 12" (N) = 0.01 INV. 12" (SE) = 0.01
9 PIPE END INV.=(-)1.22
10 E. C.B. RIM=9.37 INV. 12" (S) = (-)1.13 INV. 24" (S) = (-)0.88
11 E. C.B. RIM=9.79 INV. 12" (N) = (-)0.61
12 E. C.B. RIM=9.55 INV. 12" (N) = (-)0.40 INV. 12" (NE) = (-)0.30 INV. 12" (SE) = (-)0.65 INV. 12" (SW) = (-)0.40
13 E. C.B. RIM=9.79 INV. 12" (N) = 1.09
14 E. C.B. RIM=9.79 INV. 12" (N) = 0.67 INV. 12" (N) = 1.07
15 E. C.B. RIM=9.79 INV. 12" (N) = 0 INV. 12" (N) = 0
16 E. C.B. RIM=9.79 INV. 12" (N) = (-)0.15 INV. 24" (SW) = (-)0.25
17 E. C.B. (ABANDONED) RIM=9.79
18 E. C.B. RIM=9.33 INV. 12" (N) = 0.30
19 E. C.B. (ABANDONED) RIM=9.33
20 E. C.B. RIM=9.60 INV. 12" (N) = 2.25
21 E. C.B. (FULL OF DEBRIS) RIM=9.79 INV. 12" (N) = 0.63
22 E. C.B. (FULL OF DEBRIS) RIM=9.79 INV. 12" (N) = 2.92 INV. 12" (S) = 2.91
23 E. C.B. (FULL OF DEBRIS) RIM=9.79 INV. 12" (N) = 1.28
24 E. C.B. (FULL OF DEBRIS) RIM=9.79 INV. 12" (N) = 1.20 INV. 12" (S) = 1.11
25 E. C.B. (FULL OF DEBRIS) RIM=9.79 INV. 12" (N) = 1.26
26 E. C.B. (FULL OF DEBRIS) RIM=9.79 INV. 12" (N) = 2.56
27 E. C.B. (FULL OF DEBRIS) RIM=9.79 INV. 12" (N) = 1.97 INV. 12" (SE) = 1.93 INV. 12" (SW) = 0.95
28 E. C.B. RIM=9.64 INV. 12" (N) = 1.95
29 E. C.B. RIM=9.79 INV. 12" (N) = 1.83 INV. 12" (N) = 1.78 INV. 12" (SE) = 1.78
30 E. M.H. RIM=9.79 INV. 12" (S) = 2.02
31 E. C.B. RIM=9.74 INV. 12" (N) = 1.87 INV. 12" (SE) = 1.83 INV. 12" (SW) = 1.83
32 E. M.H. RIM=9.30 INV. 12" (SW) = V/A
33 E. M.H. RIM=9.79 INV. 15" (N) = 1.60 INV. 15" (SE) = 1.57
34 E. M.H. RIM=9.79 INV. 15" (N) = 1.40 INV. 15" (SE) = 1.40
35 E. C.B. RIM=9.20 INV. 15" (N) = 1.40 INV. 15" (SE) = 1.45
36 E. C.B. RIM=9.79 INV. 15" (N) = 1.40 INV. 15" (SE) = 1.45
37 E. C.B. (FULL OF DEBRIS) RIM=9.79 INV. 12" (N) = 2.40
38 E. C.B. (FULL OF DEBRIS) RIM=9.79 INV. 12" (SW) = 2.05
39 E. C.B. (FULL OF DEBRIS) RIM=9.79 INV. 15" (N) = 1.56
40 E. C.B. RIM=9.79 INV. 15" (N) = 2.47
41 E. C.B. RIM=9.79 INV. 15" (N) = 2.46 INV. 15" (SE) = 2.51
42 E. C.B. RIM=9.79 INV. 15" (N) = 2.01
43 E. C.B. RIM=9.79 INV. 15" (N) = 1.56 INV. 15" (SE) = 1.88
44 E. C.B. RIM=9.79 INV. 15" (N) = 1.20 INV. 15" (SE) = 1.30
45 E. M.H. RIM=9.52 INV. 15" (N) = 1.11 INV. 15" (SE) = 1.26
46 E. C.B. RIM=9.87 INV. 15" (N) = 0.63 INV. 15" (SE) = 0.67 INV. 15" (SW) = 0.67
47 E. C.B. RIM=9.53 INV. 15" (N) = 1.39 INV. 15" (SE) = 1.34 INV. 15" (SW) = 1.19
48 E. C.B. RIM=9.53 INV. 15" (N) = 1.34 INV. 15" (SE) = 1.19
49 E. C.B. RIM=9.53 INV. 15" (N) = 1.92 INV. 15" (SW) = 1.72
50 E. C.B. RIM=9.71 INV. 15" (N) = 0.95
51 E. C.B. RIM=9.78 INV. 15" (N) = 0.86
52 E. C.B. RIM=9.50 INV. 15" (N) = 0.15 INV. 15" (SE) = 0.50
53 E. C.B. RIM=9.50 INV. 15" (N) = 3.61 INV. (NE) = 3.56
54 E. C.B. RIM=9.17 INV. 15" (N) = 3.71 INV. 15" (NE) = 3.76
55 E. C.B. RIM=9.01 INV. 12" (NW) = 3.79
56 E. C.B. RIM=9.53 INV. 15" (N) = 1.94 INV. 15" (SE) = 1.82 INV. 15" (SW) = 1.85
57 E. C.B. (FULL OF DEBRIS) RIM=9.43 INV. 15" (N) = 3.71
58 E. C.B. (ABANDONED) RIM=9.79 INV. 15" (N)= 2.71
59 ELECTRIC OUTLET
60 E. ELEC. MH. RIM=9.43
61 E. ELEC. MH. RIM=9.58

SURVEY NOTES

1. TOPOGRAPHIC SURVEY PREPARED BY C. ALLAN BRAFORTH, JR., ENGINEER – SURVEYOR LTD., DATED MARCH 2004
2. THIS SURVEY DOES NOT GUARANTEE THE EXISTENCE/NONEXISTENCE, SIZE, TYPE AND/OR LOCATION OF UNDERGROUND UTILITIES. UTILITIES SHOWN ARE BASED ON ABOVE GROUND UTILITY STRUCTURES (I.e., VALVES, MANHOLES, ETC.) AND AVAILABLE UTILITY MAPS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
3. ELEVATIONS ARE IN FEET AND REFER TO NORTH AMERICAN VERTICAL DATUM (NAVD) 1988 AND ARE BASED ON NATIONAL GEODETIC SURVEY (NGS) CONTROL, STATION A313, ELEV. = 5.94
4. TEMPORARY BENCHMARK (TBM) IS A "X" CUT ON TOP OF CURB INLET AS INDICATED. ELEVATION = 6.86
5. COORDINATES SHOWN REFER TO THE VIRGINIA STATE PLANE SYSTEM, SOUTH ZONE AND 1983/93 AND ARE BASED ON NGS CONTROL STATIONS VETERAN AND 114 0085. COORDINATE VALUES SHOWN ARE EXPRESSED IN U.S. SURVEY FEET.

EXISTING ELECTRICAL SCHEDULE

1 E. ELEC. M.H. RIM=9.17
2 E. ELEC. M.H. RIM=9.00
3 E. ELEC. M.H. RIM=9.50
4 E. ELEC. M.H. RIM=11.15
5 E. ELEC. M.H. RIM=10.09
6 E. ELEC. M.H. RIM=10.13
7 E. ELEC. M.H. RIM=9.81
8 E. ELEC. M.H. RIM=10.27
9 E. ELEC. M.H. RIM=9.71
10 E. ELEC. M.H. RIM=9.49
11 E. ELEC. M.H. RIM=9.50
12 E. ELEC. M.H. RIM=9.53
13 E. ELEC. M.H. RIM=9.37
14 E. ELEC. M.H. RIM=9.30
15 E. ELEC. M.H. RIM=9.30
16 E. ELEC. M.H. RIM=9.43
17 E. ELEC. M.H. RIM=9.98
18 SMALL WATER FOUNTAIN
19 WATER METER VAULT
20 WATER VAULT
21 WATER VAULT
22 WATER VAULT
23 E. ELEC. M.H. RIM=9.43
24 E. ELEC. M.H. RIM=9.43
25 E. ELEC. M.H. RIM=9.58

EXISTING TELEPHONE SCHEDULE

26 E. TEL. M.H. RIM=9.18
27 E. TEL. M.H. RIM=
28 E. TEL. M.H. RIM=9.17
29 E. TEL. M.H. RIM=9.23
30 E. TEL. M.H. RIM=9.84
31 E. TEL. M.H. RIM=9.68
32 E. TEL. M.H. (FIBER OPTIC) RIM=9.61
33 E. TEL. M.H. (FIBER OPTIC) RIM=9.68
34 E. TEL. M.H. (FIBER OPTIC) RIM=9.65
35 E. TEL. M.H. (FIBER OPTIC) RIM=9.51
36 E. TEL. M.H. (FIBER OPTIC) RIM=9.42
37 E. TEL. M.H. (FIBER OPTIC) RIM=9.32
38 E. TEL. M.H. RIM=9.07
39 E. TEL. M.H. RIM=9.30
40 E. TEL. M.H. RIM=9.43
41 E. TEL. M.H. (FIBER OPTIC) RIM=9.76
42 E. TEL. M.H. (FIBER OPTIC) RIM=9.34
43 E. TEL. M.H. RIM=9.43
44 E. TEL. M.H. (FIBER OPTIC) RIM=9.50
45 E. TEL. M.H. RIM=9.43
46 E. TEL. M.H. RIM=9.50
47 E. TEL. M.H. RIM=9.77
48 E. TEL. M.H. RIM=9.59
49 TELEPHONE PEDESTAL
50 EMERGENCY CALL BOX

EXISTING MANHOLE SCHEDULE

51 E. M.H. RIM=7.02
52 E. M.H. RIM=6.18
53 E. M.H. RIM=7.07
54 E. M.H. RIM=6.14
55 E. M.H. (N) RIM=9.23
56 E. M.H. (FIBER OPTIC) RIM=9.68
57 E. M.H. (FIBER OPTIC) RIM=9.61
58 E. M.H. (FIBER OPTICS) RIM=6.18
59 TRAFFIC CONTOL HANDHOLE RIM=6.47
60 UTILITY HANDHOLE
61 E. M.H. (FIBER OPTICS) RIM=9.68
62 E. M.H. (FIBER OPTICS) RIM=9.68

EXISTING STORM SCHEDULE

A RIM=9.17
B RIM=10.61
C E. M.H. RIM=

EXISTING CABLE SCHEDULE

A CABLE PEDESTAL
B CABLE BOX

EXISTING WATER SCHEDULE

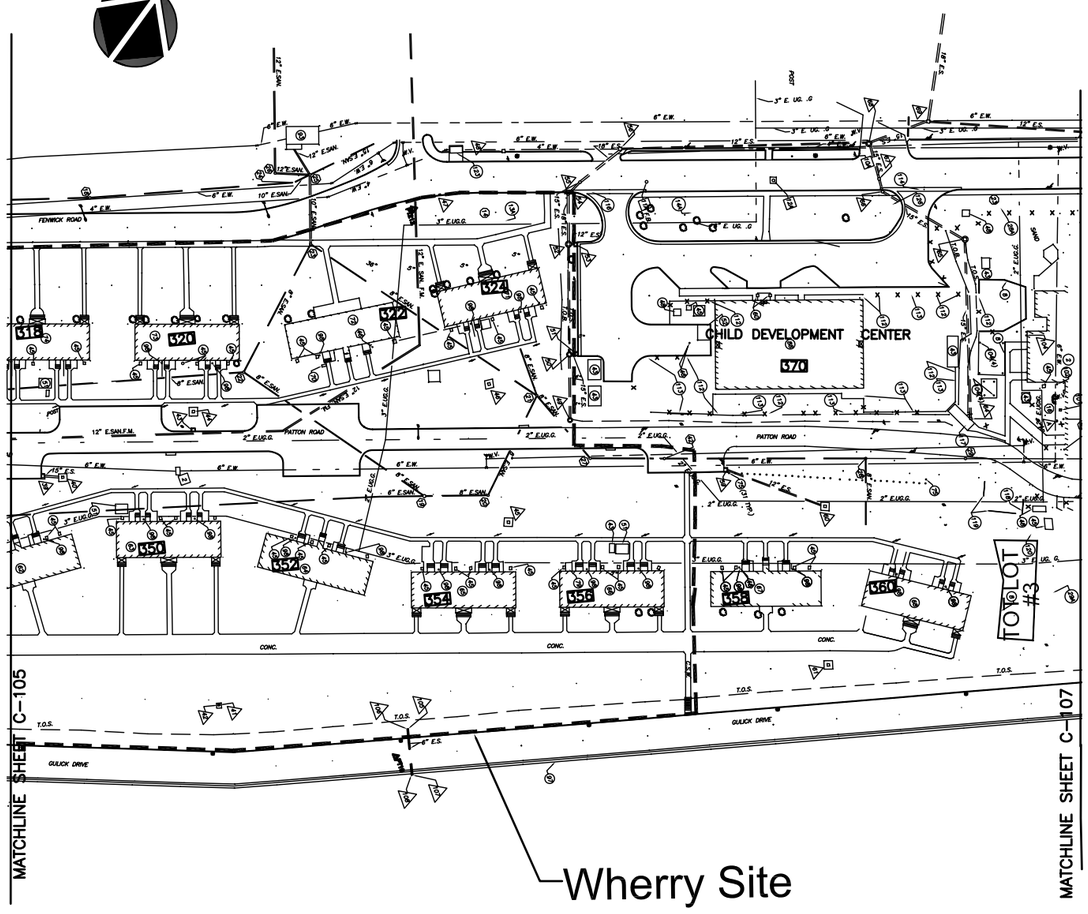
F SMALL WATER FOUNTAIN
G WATER METER VAULT
H WATER VAULT
I WATER VAULT
J WATER VAULT
K FIRE SHUT OFF VALVE

PT.	NORTHING	EASTING	ELEV.	DESC.
1	3531992.70	12124179.50	10.55	PK NAIL
13	3533253.79	12124286.74	10.63	PK NAIL
14	3533253.78	12124051.16	10.64	PK NAIL
19	3533767.23	12124855.67	10.70	PK NAIL
25	3534347.63	12125207.63	10.70	PK NAIL
30	3534631.32	12125134.56	10.69	PK NAIL
37	3535506.44	12125312.10	10.84	PK NAIL
43	3536088.84	12125464.15	10.87	PK NAIL
49	3536162.53	12125416.22	10.71	PK NAIL
56	3537346.52	12125763.65	10.83	PK NAIL
200	3537115.01	12125368.83	6.79	DRILL HOLE
202	3536846.44	12125281.05	4.78	DRILL HOLE
204	3536162.53	12125144.15	5.03	DRILL HOLE
206	3535859.30	12124970.76	5.68	PK NAIL
209	3534943.31	12124609.44	5.66	DRILL HOLE
210	3534475.87	12124431.52	6.07	DRILL HOLE
212	3533824.91	12124031.52	5.48	IRON PIN
214	3533202.80	12124291.45	5.71	IRON PIN
215	3532921.78	12124353.48	6.17	IRON PIN
216	3532852.01	12124220.40	17.21	IRON PIN

LEGEND

TOP OF CURB OR CONCRETE (TC) ELEVATION
ELEVATION OF GUTTER, PAVEMENT OR GROUND
SPOT ELEVATION
BITUMINOUS PAVEMENT
BUILDING
BUSH
CONCRETE (CONC.)
CURB
GURB AND GUTTER
FLOWER BED (F.B.)
FENCE
SIGN
TREE
GAS MAIN
OVERHEAD (OH.) LINE
SANITARY (SAN.) SEWER
STORM (S.) SEWER
UNDERGROUND (UG.) ELECTRIC (ELEC.)
UNDERGROUND (UG.) TELEPHONE (TEL.)
WATER (W.) MAIN
BOLLARD (BOLL.)
CATCH BASIN (C.B.)
CLEAN OUT (C.O.)
CURB INLET (C.I.)
FIRE HYDRANT (F.H.)
GAS VALVE (G.V.)
GUY WIRE
LIGHT POLE
MANHOLE (MH.)
METAL (MTL.) COVER (COVR.)
POST INDICATOR VALVE (P.I.V.)
ROOF DRAIN (R.D.)
UTILITY POLE
CLOTHES LINE POLE
WATER VALVE (W.V.)
ABANDONED
BARBED WIRE
CHAIN LINK FENCE
FRESH WATER
HANDICAP
INACCESSIBLE
METAL
PEDESTAL
STEAM
WITH
CONCRETE SIDE WALK

EXISTING (E.)
EDGE OF PAVEMENT
CONC.
F.B.
2" E. GAS
E. OH. LINE
6" E. SAN.
12" E.S.
E. UG. ELEC.
E. UG. TEL.
8" E.W.
B. BOLL.
C.O.
G.V.
E. MH.
R.D.
P.
ABAND.
B.W.
C.L.F.
F.W.
H.C.
I/A
MTL.
PED.
STM.
W/
CSW



1" = 60'

US Army Corps of Engineers
Norfolk District

DESIGNED FAZ	CHECKED BOT	DATE 22 DEC 04	
DRAWN NAP	SUBMITTED LD	SCALE AS SHOWN	

EXISTING CONDITIONS

1 STY. FRAME (#~176
1 STY. STUCO (#1 PATTON RD.
1 STY. FRAME (#13
1 STY. FRAME (#74
1 STY. FRAME (#75
YOUTH ARMED 1 STY. FRAME (#86
MOTORHOUSE BLDG.
CONC. GUN EMPLACEMENT
6"x6" WOOD BORDER
2 STY. BRICK/VINYL (#484
2 STY. BRICK/VINYL (#466
2 STY. BRICK/VINYL (#465
2 STY. BRICK/VINYL (#470
2 STY. BRICK/VINYL (#472
2 STY. BRICK/VINYL (#474
2 STY. BRICK/VINYL (#476
BATTERY CHURCH
CONC. GUN EMPLACEMENT
BLDG. (#482
BLDG. (#484
BLDG. (#444
BLDG. (#442
BLDG. (#440
HALIBUT
1 STY. (#200~4
1 STY. BRICK (#300
BLDG. (#313
BLDG. (#311
BLDG. (#309
BLDG. (#307
BLDG. (#305
BLDG. (#303
MTL. WAREHOUSE BLDG. (#86
BLDG. (#306
BLDG. (#304
BLDG. (#302
BLDG. (#436
BLDG. (#434
BLDG. (#432
BLDG. (#430
BLDG. (#428
BLDG. (#426
BLDG. (#424
BLDG. (#242
WOOD SHED
48" BRICK FLAWER
CONC. PAD (AIR CONDITION UNIT)
3" STEEL RAIL
COVERED CONC. LOADING DOCK
CONC. PAD (TRANSFORMER)
1.3" CONC. WALL
CONC. PAD (TEL. CABINET)
METAL SHED
CONC. PAD (DUMPSTER)
CONC. PAD (BUS STOP)
48" WIRE FENCE
6" WOOD FENCE
PARKING BLOCK
BLDG. (#316
BLDG. (#314
BLDG. (#312
BRICK COLUMN
BLDG. (#348
BLDG. (#348
BLDG. (#350
BLDG. (#352
BLDG. (#354
BLDG. (#356
BLDG. (#358
BLDG. (#360
6" CLF. 3'W RAIL W/ 5 STRAND B.W.
CONC. PAD
BLDG. (#324
BLDG. (#322
BLDG. (#320
BLDG. (#318
WOOD POST
CONC. STOOP & RAMP
METAL POST
3" WOOD BORDER
BRICK PATIO
GRAVEL PARKING
BLDG. (#462
BLDG. (#460
BLDG. (#458
BLDG. (#456
BLDG. (#454
BLDG. (#452
BLDG. (#301
BLDG. (#370 CHILD DIVISION CENTER
HANDICAP RAMP
2" OIL TANK VENT
2" OIL FILL
COVERED BRIDGE TO EAST GATE
PUMP STATION
BUS STATION
1" CONC. WALL
.8' CONC. WALL
3'-0 CONC. SEAWALL
4" IRON PIPE W/ CAP
METAL HOT BOX
UNKNOWN PEDESTAL
UNKNOWN METAL STRUCTURE
GAS METERS
WOODEN FENCE
3" SUPPORT POST
4"x3" SUPPORT POST
3.5" HANDRAIL
3" STONEWALL
1.3" STONEWALL
3" STONE WALL
1.5" STONE WALL
CONC. PAD W/ ELEC. PANEL
60" WOOD FENCE
60" CLF.
CONCRETE SWALE
BLDG. (#462
CONC. SWALE
WOOD WALK
3" PIPE RAILING
BARRIER
4' CLF.
BRASS DISH
4" METAL COVER
BUS STOP KIOSK
DUGOUT
FOUL POST
FLOWER BED

EXISTING SANITARY SCHEDULE

1 E. SAN. M.H. Rim=10.13 INV. 4" (N) = -3.53 INV. 4" (S) = -3.57 INV. 15" (SW) = -3.49 INV. 15" (NE) = -3.73
2 E. SAN. M.H. Rim=9.31 INV. 4" (N) = 1.21 INV. 4" (S) = 1.23
3 E. SAN. M.H. Rim=9.26 INV. 4" (N) = 2.64 INV. 4" (S) = 2.66 INV. 4" (W) = 2.79
4 E. SAN. M.H. Rim=9.37 INV. 4" (N) = 0.71
5 E. SAN. M.H. Rim=9.37 INV. 4" (N) = 0.57 INV. 4" (S) = 0.37 INV. 4" (W) = 0.33 INV. 4" (E) = 0.37
6 E. SAN. M.H. Rim=9.19 INV. 4" (N) = 1.79 INV. 4" (S) = 1.62 INV. 4" (E) = 1.62
7 E. SAN. M.H. Rim=8.87 INV. 12" (SE) = 1.41
8 E. SAN. M.H. Rim=9.26 INV. 4" (N) = 1.78 INV. 4" (W) = 1.83
9 E. SAN. M.H. Rim=9.37 INV. 4" (N) = 1.37 INV. 4" (S) = 1.39
10 E. SAN. M.H. Rim=9.26 INV. 4" (N) = 1.06 INV. 4" (S) = 1.03
11 E. SAN. M.H. Rim=9.26 INV. 4" (N) = 1.05 INV. 4" (S) = 1.03
12 E. SAN. M.H. Rim=9.26 INV. 4" (N) = (-)0.05 INV. 4" (S) = 0.04
13 E. SAN. M.H. Rim=9.36 INV. 4" (N) = (-)0.80 INV. 8" (W) = (-)0.77
14 E. SAN. M.H. (ABANDONED) Rim=8.41 INV. 4" (N) = 1.14 INV. 21" (S) = 1.09
15 E. SAN. M.H. Rim= INV. 4" (SW) = INV. 4" (N) = INV. 4" (S) = 0.11 INV. 12" (SE) = (-)0.04
16 E. SAN. M.H. Rim=9.13 INV. 4" (N) = (-)0.67 INV. 4" (S) = (-)0.67
17 E. SAN. M.H. Rim=9.37 INV. 4" (N) = (-)0.03 INV. 4" (S) = (-)0.03
18 E. SAN. M.H. Rim=9.31 INV. 4" (N) = (-)0.49 INV. 4" (SW) = (-)0.69
19 E. SAN. M.H. Rim=9.19 INV. 4" (N) = 2.12 INV. 4" (S) = 2.12
20 E. SAN. M.H. Rim=9.37 INV. 4" (N) = 1.78 INV. 8" (W) = 1.81
21 E. SAN. M.H. Rim=9.15 INV. 4" (N) = 1.53 INV. 4" (S) = 1.51
22 E. SAN. M.H. Rim=9.41 INV. 4" (N) = (-)1.08 INV. 4" (S) = (-)1.04 INV. 4" (W) = (-)0.98
23 E. SAN. M.H. Rim=9.22 INV. 4" (N) = 1.21 INV. 4" (S) = 1.23
24 E. SAN. M.H. Rim=9.26 INV. 4" (N) = 1.95 INV. 4" (S) = 1.92
25 E. SAN. M.H. Rim=9.22 INV. 4" (N) = 2.52 INV. 4" (S) = 2.52
26 E. SAN. M.H. Rim=9.26 INV. 4" (N) = (-) 1.85 INV. 4" (S) = 1.76 INV. 4" (W) = (-) 1.75
27 E. SAN. M.H. Rim=9.37 INV. 4" (N) = (-)0.40 INV. 4" (S) = (-)0.40 INV. 4" (W) = (-)0.40
28 E. SAN. M.H. Rim=9.37 INV. 4" (N) = (-)0.80 INV. 4" (S) = (-)0.80 INV. 15" (W) = 1.07
29 E. SAN. M.H. Rim=9.37 INV. 4" (N) = 0.04 INV. 8" (E) = 0.14
30 E. SAN. M.H. Rim=9.37 INV. 4" (N) = 0.49 INV. 4" (S) = 0.49
31 SANITARY CLEANOUT
32 E. SAN. M.H. Rim=9.37 INV. 4" (N) = 0.69 INV. 4" (S) = 0.69
33 E. SAN. M.H. Rim=9.26 INV. 4" (N) = 0.60 INV. 4" (S) = 0.54
34 E. SAN. M.H. (ABANDONED) Rim=5.22 INV. 4" (N) = N/A INV. 4" (S) = N/A
35 E. SAN. M.H. (ABANDONED) Rim=5.22 INV. 4" (N) = N/A INV. 4" (S) = N/A
36 E. SAN. M.H. (ABANDONED) Rim=5.22 INV. 4" (N) = N/A INV. 4" (S) = N/A
37 E. SAN. M.H. (ABANDONED) Rim=5.22 INV. 4" (N) = N/A INV. 4" (S) = N/A
38 E. SAN. M.H. (ABANDONED/FULL OF WATER AND DEBRIS) Rim=5.22 INV. 4" (N) = N/A INV. 4" (S) = N/A
39 E. SAN. M.H. (ABANDONED) Rim=5.22 INV. 4" (N) = N/A INV. 4" (S) = N/A
40 E. SAN. M.H. (ABANDONED) Rim=5.22 INV. 4" (N) = N/A INV. 4" (S) = N/A
41 E. SAN. M.H. (COVERED/N.A.) Rim=5.03 INV. 4" (N) = N/A INV. 4" (S) = N/A
42 E. SAN. M.H. Rim=9.11 INV. 4" (N) = 0.88 INV. 4" (S) = 0.16 INV. 15" (SW) = 0.11 INV. 15" (NE) = 0.11
43 E. SAN. M.H. Rim=9.37 INV. 4" (N) = (-)0.40 INV. 4" (S) = (-)0.40 INV. 4" (W) = (-)0.40
44 E. SAN. M.H. Rim=9.37 INV. 4" (N) = 0.97 INV. 4" (S) = 1.07
45 E. SAN. M.H. Rim=9.37 INV. 4" (N) = 0 INV. 4" (S) = 0 INV. 15" (SW) = (-)0.16 INV. 15" (NE) = (-)0.25
46 E. SAN. M.H. (ABANDONED) Rim=5.15 INV. 4" (N) = N/A INV. 4" (S) = N/A
47 E. SAN. M.H. (ABANDONED) Rim=5.03 INV. 4" (N) = N/A INV. 4" (S) = N/A
48 E. SAN. M.H. (ABANDONED) Rim=5.22 INV. 4" (N) = N/A INV. 4" (S) = N/A
49 E. CB. (FULL OF DEBRIS) Rim=9.37 INV. 4" (N) = 0.60 INV. 24" (SW) = 0.44
50 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 2.92 INV. 4" (S) = 2.92 INV. 15" (SE) = 1.58
51 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 3.28 INV. 4" (S) = 2.58
52 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 1.97 INV. 4" (S) = 1.93 INV. 15" (N) = 0.95
53 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4 INV. 15" (N) = 2.51
54 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4
55 E. CB. Rim=9.03 INV. 4" (N) = 2.01 INV. 4" (S) = 1.37
56 E. CB. Rim=9.00 INV. 4" (N) = 2.50
57 E. CB. Rim=9.00 INV. 4" (N) = 3.7
58 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
59 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
60 1.6' WOOD HEADWALL
61 E. CB. Rim=9.22 INV. 4" (N) = (-)1.13 INV. 24" (S) = (-)0.88
62 E. CB. Rim=9.39 INV. 4" (N) = (-)0.61
63 E. CB. Rim=9.37 INV. 4" (N) = (-)0.40 INV. 12" (SE) = (-)0.40 INV. 12" (NW) = (-)0.40
64 E. CB. Rim=9.37 INV. 4" (N) = 0.97 INV. 12" (NW) = 1.07
65 E. CB. Rim=9.37 INV. 4" (N) = 0 INV. 12" (SE) = 0 INV. 15" (SW) = (-)0.16 INV. 15" (NE) = (-)0.25
66 E. CB. (ABANDONED) Rim=5.15
67 E. MH. (ABANDONED) Rim=5.22
68 E. MH. (ABANDONED) Rim=5.03
69 E. CB. Rim=9.62 INV. 4" (N) = 0.60
70 E. CB. (FULL OF DEBRIS) Rim=9.37 INV. 4" (N) = 0.60 INV. 24" (SW) = 0.44
71 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
72 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 3.28 INV. 4" (S) = 2.58
73 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 1.97 INV. 4" (S) = 1.93 INV. 15" (N) = 0.95
74 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4 INV. 15" (N) = 2.51
75 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4
76 E. CB. Rim=9.03 INV. 4" (N) = 2.01 INV. 4" (S) = 1.37
77 E. CB. Rim=9.00 INV. 4" (N) = 2.50
78 E. CB. Rim=9.00 INV. 4" (N) = 3.7
79 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
80 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
81 E. CB. (FULL OF WATER) Rim=9.22 INV. 4" (N) = (-)1.13 INV. 24" (S) = (-)0.88
82 E. MH. Rim=9.11 INV. 4" (N) = 0.88 INV. 4" (S) = 0.16 INV. 15" (SW) = 0.11 INV. 15" (NE) = 0.11
83 E. MH. Rim=9.37 INV. 4" (N) = 0.60 INV. 4" (S) = 0.33
84 E. CB. Rim=9.37 INV. 4" (N) = 0.80
85 E. CB. Rim=9.46 INV. 4" (N) = 0.56
86 E. CB. Rim=9.03 INV. 4" (N) = 2.68 INV. 4" (S) = 2.51
87 E. CB. Rim=9.61 INV. 4" (N) = 2.08
88 E. CB. Rim=9.61 INV. 4" (N) = 2.26
89 E. CB. Rim=9.22 INV. 4" (N) = 2.25
90 E. CB. (FULL OF DEBRIS) Rim=9.00 INV. 4" (N) = 4.00
91 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
92 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
93 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 3.28 INV. 4" (S) = 2.58
94 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 1.97 INV. 4" (S) = 1.93 INV. 15" (N) = 0.95
95 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4 INV. 15" (N) = 2.51
96 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4
97 E. CB. Rim=9.03 INV. 4" (N) = 2.01 INV. 4" (S) = 1.37
98 E. CB. Rim=9.00 INV. 4" (N) = 2.50
99 E. CB. Rim=9.00 INV. 4" (N) = 3.7
100 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
101 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
102 E. CB. (FULL OF WATER) Rim=9.22 INV. 4" (N) = (-)1.13 INV. 24" (S) = (-)0.88
103 E. MH. Rim=9.11 INV. 4" (N) = 0.88 INV. 4" (S) = 0.16 INV. 15" (SW) = 0.11 INV. 15" (NE) = 0.11
104 E. MH. Rim=9.37 INV. 4" (N) = 0.60 INV. 4" (S) = 0.33
105 E. CB. Rim=9.37 INV. 4" (N) = 0.80
106 E. CB. Rim=9.46 INV. 4" (N) = 0.56
107 E. CB. Rim=9.03 INV. 4" (N) = 2.68 INV. 4" (S) = 2.51
108 E. CB. Rim=9.61 INV. 4" (N) = 2.08
109 E. CB. Rim=9.61 INV. 4" (N) = 2.26
110 E. CB. Rim=9.22 INV. 4" (N) = 2.25
111 E. CB. (FULL OF DEBRIS) Rim=9.00 INV. 4" (N) = 4.00
112 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
113 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
114 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 3.28 INV. 4" (S) = 2.58
115 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 1.97 INV. 4" (S) = 1.93 INV. 15" (N) = 0.95
116 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4 INV. 15" (N) = 2.51
117 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4
118 E. CB. Rim=9.03 INV. 4" (N) = 2.01 INV. 4" (S) = 1.37
119 E. CB. Rim=9.00 INV. 4" (N) = 2.50
120 E. CB. Rim=9.00 INV. 4" (N) = 3.7
121 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
122 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
123 E. CB. (FULL OF WATER) Rim=9.22 INV. 4" (N) = (-)1.13 INV. 24" (S) = (-)0.88
124 E. MH. Rim=9.11 INV. 4" (N) = 0.88 INV. 4" (S) = 0.16 INV. 15" (SW) = 0.11 INV. 15" (NE) = 0.11
125 E. MH. Rim=9.37 INV. 4" (N) = 0.60 INV. 4" (S) = 0.33
126 E. CB. Rim=9.37 INV. 4" (N) = 0.80
127 E. CB. Rim=9.46 INV. 4" (N) = 0.56
128 E. CB. Rim=9.03 INV. 4" (N) = 2.68 INV. 4" (S) = 2.51
129 E. CB. Rim=9.61 INV. 4" (N) = 2.08
130 E. CB. Rim=9.61 INV. 4" (N) = 2.26
131 E. CB. Rim=9.22 INV. 4" (N) = 2.25
132 E. CB. (FULL OF DEBRIS) Rim=9.00 INV. 4" (N) = 4.00
133 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
134 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
135 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 3.28 INV. 4" (S) = 2.58
136 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 1.97 INV. 4" (S) = 1.93 INV. 15" (N) = 0.95
137 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4 INV. 15" (N) = 2.51
138 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4
139 E. CB. Rim=9.03 INV. 4" (N) = 2.01 INV. 4" (S) = 1.37
140 E. CB. Rim=9.00 INV. 4" (N) = 2.50
141 E. CB. Rim=9.00 INV. 4" (N) = 3.7
142 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
143 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
144 E. CB. (FULL OF WATER) Rim=9.22 INV. 4" (N) = (-)1.13 INV. 24" (S) = (-)0.88
145 E. MH. Rim=9.11 INV. 4" (N) = 0.88 INV. 4" (S) = 0.16 INV. 15" (SW) = 0.11 INV. 15" (NE) = 0.11
146 E. MH. Rim=9.37 INV. 4" (N) = 0.60 INV. 4" (S) = 0.33
147 E. CB. Rim=9.37 INV. 4" (N) = 0.80
148 E. CB. Rim=9.46 INV. 4" (N) = 0.56
149 E. CB. Rim=9.03 INV. 4" (N) = 2.68 INV. 4" (S) = 2.51
150 E. CB. Rim=9.61 INV. 4" (N) = 2.08
151 E. CB. Rim=9.61 INV. 4" (N) = 2.26
152 E. CB. Rim=9.22 INV. 4" (N) = 2.25
153 E. CB. (FULL OF DEBRIS) Rim=9.00 INV. 4" (N) = 4.00
154 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
155 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
156 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 3.28 INV. 4" (S) = 2.58
157 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 1.97 INV. 4" (S) = 1.93 INV. 15" (N) = 0.95
158 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4 INV. 15" (N) = 2.51
159 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4
160 E. CB. Rim=9.03 INV. 4" (N) = 2.01 INV. 4" (S) = 1.37
161 E. CB. Rim=9.00 INV. 4" (N) = 2.50
162 E. CB. Rim=9.00 INV. 4" (N) = 3.7
163 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
164 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
165 E. CB. (FULL OF WATER) Rim=9.22 INV. 4" (N) = (-)1.13 INV. 24" (S) = (-)0.88
166 E. MH. Rim=9.11 INV. 4" (N) = 0.88 INV. 4" (S) = 0.16 INV. 15" (SW) = 0.11 INV. 15" (NE) = 0.11
167 E. MH. Rim=9.37 INV. 4" (N) = 0.60 INV. 4" (S) = 0.33
168 E. CB. Rim=9.37 INV. 4" (N) = 0.80
169 E. CB. Rim=9.46 INV. 4" (N) = 0.56
170 E. CB. Rim=9.03 INV. 4" (N) = 2.68 INV. 4" (S) = 2.51
171 E. CB. Rim=9.61 INV. 4" (N) = 2.08
172 E. CB. Rim=9.61 INV. 4" (N) = 2.26
173 E. CB. Rim=9.22 INV. 4" (N) = 2.25
174 E. CB. (FULL OF DEBRIS) Rim=9.00 INV. 4" (N) = 4.00
175 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
176 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
177 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 3.28 INV. 4" (S) = 2.58
178 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 1.97 INV. 4" (S) = 1.93 INV. 15" (N) = 0.95
179 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4 INV. 15" (N) = 2.51
180 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4
181 E. CB. Rim=9.03 INV. 4" (N) = 2.01 INV. 4" (S) = 1.37
182 E. CB. Rim=9.00 INV. 4" (N) = 2.50
183 E. CB. Rim=9.00 INV. 4" (N) = 3.7
184 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
185 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
186 E. CB. (FULL OF WATER) Rim=9.22 INV. 4" (N) = (-)1.13 INV. 24" (S) = (-)0.88
187 E. MH. Rim=9.11 INV. 4" (N) = 0.88 INV. 4" (S) = 0.16 INV. 15" (SW) = 0.11 INV. 15" (NE) = 0.11
188 E. MH. Rim=9.37 INV. 4" (N) = 0.60 INV. 4" (S) = 0.33
189 E. CB. Rim=9.37 INV. 4" (N) = 0.80
190 E. CB. Rim=9.46 INV. 4" (N) = 0.56
191 E. CB. Rim=9.03 INV. 4" (N) = 2.68 INV. 4" (S) = 2.51
192 E. CB. Rim=9.61 INV. 4" (N) = 2.08
193 E. CB. Rim=9.61 INV. 4" (N) = 2.26
194 E. CB. Rim=9.22 INV. 4" (N) = 2.25
195 E. CB. (FULL OF DEBRIS) Rim=9.00 INV. 4" (N) = 4.00
196 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
197 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
198 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 3.28 INV. 4" (S) = 2.58
199 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 1.97 INV. 4" (S) = 1.93 INV. 15" (N) = 0.95
200 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4 INV. 15" (N) = 2.51
201 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4
202 E. CB. Rim=9.03 INV. 4" (N) = 2.01 INV. 4" (S) = 1.37
203 E. CB. Rim=9.00 INV. 4" (N) = 2.50
204 E. CB. Rim=9.00 INV. 4" (N) = 3.7
205 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
206 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
207 E. CB. (FULL OF WATER) Rim=9.22 INV. 4" (N) = (-)1.13 INV. 24" (S) = (-)0.88
208 E. MH. Rim=9.11 INV. 4" (N) = 0.88 INV. 4" (S) = 0.16 INV. 15" (SW) = 0.11 INV. 15" (NE) = 0.11
209 E. MH. Rim=9.37 INV. 4" (N) = 0.60 INV. 4" (S) = 0.33
210 E. CB. Rim=9.37 INV. 4" (N) = 0.80
211 E. CB. Rim=9.46 INV. 4" (N) = 0.56
212 E. CB. Rim=9.03 INV. 4" (N) = 2.68 INV. 4" (S) = 2.51
213 E. CB. Rim=9.61 INV. 4" (N) = 2.08
214 E. CB. Rim=9.61 INV. 4" (N) = 2.26
215 E. CB. Rim=9.22 INV. 4" (N) = 2.25
216 E. CB. (FULL OF DEBRIS) Rim=9.00 INV. 4" (N) = 4.00
217 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
218 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
219 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 3.28 INV. 4" (S) = 2.58
220 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 1.97 INV. 4" (S) = 1.93 INV. 15" (N) = 0.95
221 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4 INV. 15" (N) = 2.51
222 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4
223 E. CB. Rim=9.03 INV. 4" (N) = 2.01 INV. 4" (S) = 1.37
224 E. CB. Rim=9.00 INV. 4" (N) = 2.50
225 E. CB. Rim=9.00 INV. 4" (N) = 3.7
226 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
227 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
228 E. CB. (FULL OF WATER) Rim=9.22 INV. 4" (N) = (-)1.13 INV. 24" (S) = (-)0.88
229 E. MH. Rim=9.11 INV. 4" (N) = 0.88 INV. 4" (S) = 0.16 INV. 15" (SW) = 0.11 INV. 15" (NE) = 0.11
230 E. MH. Rim=9.37 INV. 4" (N) = 0.60 INV. 4" (S) = 0.33
231 E. CB. Rim=9.37 INV. 4" (N) = 0.80
232 E. CB. Rim=9.46 INV. 4" (N) = 0.56
233 E. CB. Rim=9.03 INV. 4" (N) = 2.68 INV. 4" (S) = 2.51
234 E. CB. Rim=9.61 INV. 4" (N) = 2.08
235 E. CB. Rim=9.61 INV. 4" (N) = 2.26
236 E. CB. Rim=9.22 INV. 4" (N) = 2.25
237 E. CB. (FULL OF DEBRIS) Rim=9.00 INV. 4" (N) = 4.00
238 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
239 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
240 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 3.28 INV. 4" (S) = 2.58
241 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 1.97 INV. 4" (S) = 1.93 INV. 15" (N) = 0.95
242 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4 INV. 15" (N) = 2.51
243 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4
244 E. CB. Rim=9.03 INV. 4" (N) = 2.01 INV. 4" (S) = 1.37
245 E. CB. Rim=9.00 INV. 4" (N) = 2.50
246 E. CB. Rim=9.00 INV. 4" (N) = 3.7
247 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
248 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
249 E. CB. (FULL OF WATER) Rim=9.22 INV. 4" (N) = (-)1.13 INV. 24" (S) = (-)0.88
250 E. MH. Rim=9.11 INV. 4" (N) = 0.88 INV. 4" (S) = 0.16 INV. 15" (SW) = 0.11 INV. 15" (NE) = 0.11
251 E. MH. Rim=9.37 INV. 4" (N) = 0.60 INV. 4" (S) = 0.33
252 E. CB. Rim=9.37 INV. 4" (N) = 0.80
253 E. CB. Rim=9.46 INV. 4" (N) = 0.56
254 E. CB. Rim=9.03 INV. 4" (N) = 2.68 INV. 4" (S) = 2.51
255 E. CB. Rim=9.61 INV. 4" (N) = 2.08
256 E. CB. Rim=9.61 INV. 4" (N) = 2.26
257 E. CB. Rim=9.22 INV. 4" (N) = 2.25
258 E. CB. (FULL OF DEBRIS) Rim=9.00 INV. 4" (N) = 4.00
259 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
260 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
261 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 3.28 INV. 4" (S) = 2.58
262 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 1.97 INV. 4" (S) = 1.93 INV. 15" (N) = 0.95
263 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4 INV. 15" (N) = 2.51
264 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4
265 E. CB. Rim=9.03 INV. 4" (N) = 2.01 INV. 4" (S) = 1.37
266 E. CB. Rim=9.00 INV. 4" (N) = 2.50
267 E. CB. Rim=9.00 INV. 4" (N) = 3.7
268 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
269 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
270 E. CB. (FULL OF WATER) Rim=9.22 INV. 4" (N) = (-)1.13 INV. 24" (S) = (-)0.88
271 E. MH. Rim=9.11 INV. 4" (N) = 0.88 INV. 4" (S) = 0.16 INV. 15" (SW) = 0.11 INV. 15" (NE) = 0.11
272 E. MH. Rim=9.37 INV. 4" (N) = 0.60 INV. 4" (S) = 0.33
273 E. CB. Rim=9.37 INV. 4" (N) = 0.80
274 E. CB. Rim=9.46 INV. 4" (N) = 0.56
275 E. CB. Rim=9.03 INV. 4" (N) = 2.68 INV. 4" (S) = 2.51
276 E. CB. Rim=9.61 INV. 4" (N) = 2.08
277 E. CB. Rim=9.61 INV. 4" (N) = 2.26
278 E. CB. Rim=9.22 INV. 4" (N) = 2.25
279 E. CB. (FULL OF DEBRIS) Rim=9.00 INV. 4" (N) = 4.00
280 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
281 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 2.92 INV. 15" (SE) = 1.58
282 E. CB. (FULL OF DEBRIS) Rim=9.26 INV. 4" (N) = 3.28 INV. 4" (S) = 2.58
283 E. CB. (FULL OF DEBRIS) Rim=9.03 INV. 4" (N) = 1.97 INV. 4" (S) = 1.93 INV. 15" (N) = 0.95
284 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4 INV. 15" (N) = 2.51
285 E. CB. Rim=9.64 INV. 4" (N) = 2.47 INV. 4" (S) = 2.4
286 E. CB. Rim=9.03 INV. 4" (N) = 2.01 INV. 4" (S) = 1.37
287 E. CB. Rim=9.00 INV. 4" (N) = 2.50
288 E. CB. Rim=9.00 INV. 4" (N) = 3.7
289 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
290 E. CB. (FULL OF WATER) Rim=9.03 INV. 4" (N) = 0.01 INV. 4" (S) = 0.01
291 E. CB. (FULL OF WATER) Rim=9.22 INV. 4" (N) = (-)1.13 INV. 24" (S) = (-)0.88
292 E. MH. Rim=9.11 INV. 4" (N) = 0.88 INV. 4" (S) = 0.16 INV. 15" (SW) = 0.11 INV. 15" (NE) = 0.11
293 E. MH. Rim=9.37 INV. 4" (N) = 0.60 INV. 4" (S) = 0.33
294 E. CB. Rim=9.37 INV. 4" (N) = 0.80
295 E. CB. Rim=9.46 INV. 4" (N) = 0.56
296 E. CB. Rim=9.03 INV. 4" (N) = 2.68 INV. 4" (S) = 2.51
297 E. CB. Rim=9.61 INV. 4" (N) = 2.08
298 E. CB. Rim=9.61 INV. 4" (N) = 2.26
299 E

EXISTING ELECTRICAL SCHEDULE

1	E. ELEC. M.H. RIM=6.17
2	E. ELEC. M.H. RIM=8.05
3	E. ELEC. M.H. RIM=6.91
4	E. ELEC. M.H. RIM=11.15
5	E. ELEC. M.H. RIM=10.09
6	E. ELEC. M.H. RIM=10.15
7	E. ELEC. M.H. RIM=9.91
8	E. ELEC. M.H. RIM=10.07
9	E. ELEC. M.H. RIM=7.49
10	E. ELEC. M.H. RIM=6.71
11	E. ELEC. M.H. RIM=4.76
12	E. ELEC. M.H. RIM=5.37
13	E. ELEC. M.H. RIM=4.30
14	E. ELEC. M.H. RIM=5.54
15	E. ELEC. M.H. RIM=4.98
16	E. ELEC. M.H. RIM=5.32
17	E. ELEC. M.H. RIM=5.57
18	E. ELEC. M.H. RIM=5.53
19	E. ELEC. M.H. RIM=5.98
20	E. ELEC. M.H. RIM=5.63
21	ELECTRIC OULET
22	E. ELEC. MH. RIM=5.01
23	E. ELEC. MH. RIM=6.56

SURVEY NOTES

1. TOPOGRAPHIC SURVEY PREPARED BY C. ALLAN BAMFORTH, JR., ENGINEER – SURVEYOR LTD., DATED MARCH 2004
2. THIS SURVEY DOES NOT GUARANTEE THE EXISTENCE/NONEXISTENCE, SIZE, TYPE AND/OR LOCATION OF UNDERGROUND UTILITIES. UTILITIES SHOWN ARE BASED ON ABOVE GROUND UTILITY STRUCTURES (i.e., VALVES, MANHOLES, ETC...) AND AVAILABLE UTILITY MAPS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
3. ELEVATIONS ARE IN FEET AND REFER TO NORTH AMERICAN VERTICAL DATUM (NAVD) 1988 AND ARE BASED ON NATIONAL GEODETIC SURVEY (NGS) CONTROL, STATION A312. ELEV. = 5.94
4. TEMPORARY BENCHMARK (TBM) IS A "□" CUT ON TOP OF CURB INLET AS INDICATED. ELEVATION = 6.98
5. COORDINATES SHOWN REFER TO THE VIRGINIA STATE PLANE SYSTEM, SOUTH ZONE NAD 1983/93 AND ARE BASED ON NGS CONTROL STATIONS VETERAN AND 114 0065. COORDINATE VALVES SHOWN ARE EXPRESSED IN U.S. SURVEY FEET.

EXISTING TELEPHONE SCHEDULE

1A	E. TEL. M.H. RIM=6.18
2A	E. TEL. M.H. RIM=
3A	E. TEL. M.H. RIM=7.12
4A	E. TEL. M.H. RIM=4.84
5A	E. TEL. M.H. RIM=7.88
6A	E. TEL. M.H. (FIBER OPTIC) RIM=6.61
7A	E. TEL. M.H. RIM=6.68
8A	E. TEL. M.H. RIM=5.65
9A	E. TEL. M.H. (FIBER OPTIC) RIM=4.51
10A	E. TEL. M.H. (FIBER OPTIC) RIM=5.32
11A	E. TEL. M.H. RIM=5.07
12A	E. TEL. M.H. RIM=4.17
13A	E. TEL. M.H. RIM=5.38
14A	E. TEL. M.H. RIM=6.74
15A	E. TEL. M.H. RIM=5.43
16A	E. TEL. M.H. RIM=5.68
17A	E. TEL. M.H. (FIBER OPTIC) RIM=5.68
18A	E. TEL. M.H. (FIBER OPTIC) RIM=5.78
19A	E. TEL. M.H. RIM=5.94
20A	E. TEL. M.H. RIM=5.57
21A	E. TEL. M.H. (FIBER OPTIC) RIM=5.80
22A	E. TEL. M.H. (FIBER OPTIC) RIM=5.50
23A	E. TEL. M.H. RIM=5.61
24A	E. TEL. M.H. RIM=4.85
25A	E. TEL. M.H. RIM=5.55
26A	E. TEL. M.H. RIM=5.53
27A	E. TEL. M.H. RIM=6.77
28A	E. TEL. M.H. RIM=6.59
29A	TELEPHONE PEDESTAL
30A	EMERGENCY CALL BOX

EXISTING MANHOLE SCHEDULE

1A	E. M.H. RIM=7.02
2A	E. M.H. RIM=6.18
3A	E. M.H. RIM=5.67
4A	E. M.H. RIM=8.14
5A	E. M.H. (IA) RIM=9.25
6A	E. M.H. (FIBER OPTIC) RIM=6.66
7A	E. M.H. (FIBER OPTICS) RIM=6.55
8A	E. M.H. (FIBER OPTICS) RIM=6.16
9A	TRAFFIC CONTOL HANDHOLE RIM=6.67
10A	UTILITY HANDHOLE
11A	E. M.H. (FIBER OPTICS) RIM=5.60
12A	E. M.H. (FIBER OPTICS) RIM=5.66

EXISTING STEAM SCHEDULE

A	E. M.H. RIM=10.61
B	E. M.H. RIM=

EXISTING CABLE SCHEDULE

A	CABLE PEDESTAL
B	CABLE BOX

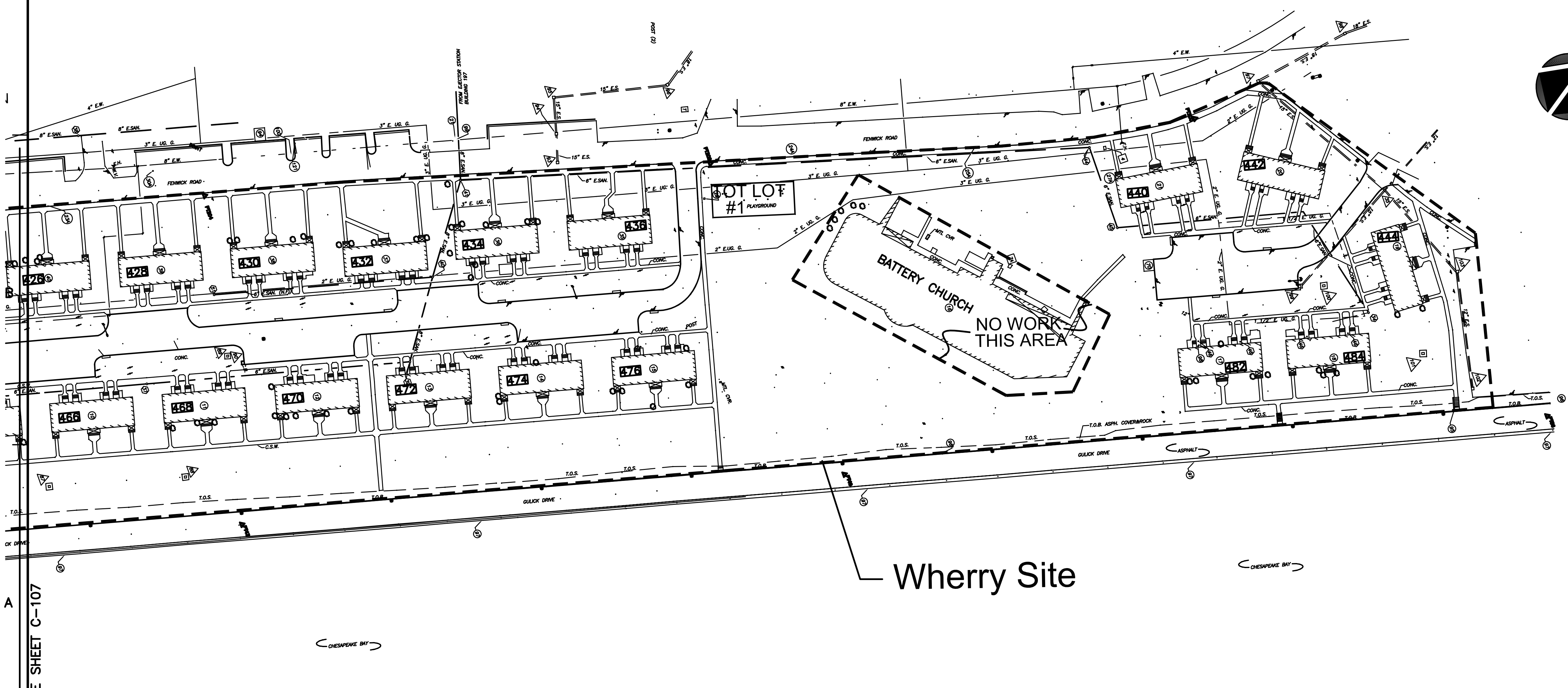
EXISTING WATER SCHEDULE

1	SMALL WATER FOUNTAIN
2	WATER METER VAULT
3	WATER VAULT
4	WATER VAULT
5	WATER FAUCET
6	FIRE SHUT OFF VALVE

PT.	NORTHING	EASTING	ELEV.	DESC.
1	3531992.70	12124178.56	10.55	PK NAIL
7	3532551.78	12124396.74	10.67	PK NAIL
14	3533203.78	12124651.16	10.64	PK NAIL
19	3533767.22	12124855.67	10.70	PK NAIL
25	3534347.63	12125007.83	10.70	PK NAIL
30	3534831.32	12125134.56	10.69	PK NAIL
37	3535508.44	12125312.10	10.84	PK NAIL
43	3536088.84	12125464.15	10.87	PK NAIL
49	3536669.33	12125616.22	10.71	PK NAIL
56	3537346.52	12125793.65	10.82	PK NAIL
200	3537115.01	12125398.93	6.79	DRILL HOLE
202	3536646.44	12125281.05	4.78	DRILL HOLE
204	3536162.53	12125144.18	5.02	DRILL HOLE
206	3535659.50	12124970.76	5.68	PK NAIL
208	3534943.91	12124809.44	5.66	DRILL HOLE
210	3534475.87	12124631.52	6.07	DRILL HOLE
212	3533924.91	12124451.52	5.48	IRON PIN
214	3533202.80	12124291.45	5.71	IRON PIN
215	3532921.76	12124303.48	6.17	IRON PIN
216	3532652.01	12124220.40	17.21	IRON PIN

LEGEND

	EXISTING (E.)
TOP OF CURB OR CONCRETE (TC) ELEVATION / ELEVATION OF GUTTER, PAVEMENT OR GROUND	ELEV / ELEV
SPOT ELEVATION	×ELEV
BITUMINOUS PAVEMENT	
BUILDING	
BUSH	
CONCRETE (CONC.)	CONC.
CURB	
GURB AND GUTTER	
FLOWER BED (F.B.)	F.B.
FENCE	
SIGN	
TREE	12"
GAS MAIN	2" E. GAS
OVERHEAD (OH.) LINE	E. OH. LINE
SANITARY (SAN.) SEWER	8" E. SAN.
STORM (S.) SEWER	12" E.S.
UNDERGROUND (UG.) ELECTRIC (ELEC.)	E. UG. ELEC.
UNDERGROUND (UG.) TELEPHONE (TEL.)	E. UG. TEL.
WATER (W.) MAIN	6" E.W.
BOLLARD (BOLL.)	BOLL.
CATCH BASIN (C.B.)	
CLEAN OUT (C.O.)	C.O.
CURB INLET (C.I.)	
FIRE HYDRANT (F.H.)	
GAS VALVE (G.V.)	G.V.
GUY WIRE	
LIGHT POLE	
MANHOLE (MH.)	E. MH.
METAL (MTL.) COVER (CVR.)	
POST INDICATOR VALVE (P.I.V.)	
ROOF DRAIN (R.D.)	R.D.
UTILITY POLE	
CLOTHES LINE POLE	
WATER VALVE (W.V.)	
ABANDONED	ABAND.
BARBED WIRE	B.W.
CHAIN LINK FENCE	CLF
FRESH WATER	F.W.
HANDICAP	H.C.
INACCESSIBLE	I/A
METAL	MTL.
PEDESTAL	PED.
STEAM	STM.
WITH	W/
CONCRETE SIDE WALK	CSW



1" = 60'

US Army Corps of Engineers Norfolk District

DESIGNED: FAZ	CHECKED: BOT	DATE: 22 DEC 04
DRAWN: NAP	REVIEWED: TLD	SCALE: AS SHOWN
PROJECT NO. 60772		NORFOLK DISTRICT FILE NO. FM 346-1.10
DRAWING NO. 711-14-14		SPECIFICATION NO.

Norfolk District
US Army Corps of Engineers
Norfolk, Virginia

22 DECEMBER 2004

WHERRY FAMILY HOUSING REPLACEMENT
FORT MONROE
HAMPTON, VA

UTILITIES SITE PLAN

C-108
SHEET OF

EXISTING CONDITIONS

- (1) 1 STY. FRAME #P-176
- (2) 1 STY. STUCO #1 PATTON RD.
- (3) 1 STY. FRAME #173
- (4) 1 STY. FRAME #174
- (5) 1 STY. FRAME #175
- (6) YOUTH ANNEX 1 STY. FRAME #98 (400FENWICK) RD.)
- (7) BATTERY DE RUSSY CONC. GUN EMPLACEMENT
- (8) 6"X6" WOOD BORDER
- (9) 2 STY. BRICK/VINYL #464
- (10) 2 STY. BRICK/VINYL #466
- (11) 2 STY. BRICK/VINYL #468
- (12) 2 STY. BRICK/VINYL #470
- (13) 2 STY. BRICK/VINYL #472
- (14) 2 STY. BRICK/VINYL #474
- (15) 2 STY. BRICK/VINYL #476
- (16) BATTERY CHURCH CONC. GUN EMPLACEMENT
- (17) BLDG. #482
- (18) BLDG. #484
- (19) BLDG. #444
- (20) BLDG. #442
- (21) BLDG. #440
- (22) MAILBOX
- (23) 1 STY. #290-A
- (24) 1 STY. BRICK #300
- (25) BLDG. #313
- (26) BLDG. #311
- (27) BLDG. #309
- (28) BLDG. #307
- (29) BLDG. #305
- (30) BLDG. #303
- (31) MTL. WAREHOUSE BLDG. #88
- (32) BLDG. #306
- (33) BLDG. #304
- (34) BLDG. #302
- (35) BLDG. #436
- (36) BLDG. #434
- (37) BLDG. #432
- (38) BLDG. #430
- (39) BLDG. #428
- (40) BLDG. #426
- (41) BLDG. #424
- (42) BLDG. #342
- (43) WOOD SHED
- (44) .65' BRICK PLANTER
- (45) CONC. PAD (AIR CONDITION UNIT)
- (46) 3' STEEL RAIL
- (47) COVERED CONC. LOADING DOCK
- (48) CONC. PAD (TRANSFORMER)
- (49) 1.3' CONC. WALL
- (50) CONC. PAD (TEL. CABINET)
- (51) METAL SHED
- (52) CONC. PAD (DUMPSTER)
- (53) CONC. PAD (BUS STOP)
- (54) 48" WIRE FENCE
- (55) 6' WOOD FENCE
- (56) PARKING BLOCK
- (57) BLDG. #316
- (58) BLDG. #314
- (59) BLDG. #312
- (60) BRICK COLUMN
- (61) BLDG. #346
- (62) BLDG. #348
- (63) BLDG. #350
- (64) BLDG. #352
- (65) BLDG. #354
- (66) BLDG. #356
- (67) BLDG. #358
- (68) BLDG. #360
- (69) 8' CLF. TOP RAIL W/ S STRAND B.W.
- (70) CONC. PAD
- (71) BLDG. #324
- (72) BLDG. #322
- (73) BLDG. #320
- (74) BLDG. #318
- (75) WOOD POST
- (76) CONC. STOOP & RAMP
- (77) METAL POST
- (78) .5' WOOD BORDER
- (79) BRICK PATIO
- (80) GRAVEL PARKING
- (81) BLDG. #462
- (82) BLDG. #460
- (83) BLDG. #458
- (84) BLDG. #456
- (85) BLDG. #454
- (86) BLDG. #452
- (87) BLDG. #301
- (88) BLDG. #370 CHILD DIVISION CENTER
- (89) HANDICAP RAMP
- (90) 2" OIL TANK VENT
- (91) 2" OIL FILL
- (92) COVERED BRIDGE TO EAST GATE
- (93) PUMP STATION
- (94) BUS STATION
- (95) 1' CONC. WALL
- (96) .6' CONC. WALL
- (97) 3'.0 CONC. SEAWALL
- (98) 4" IRON PIPE W/ CAP
- (99) METAL HOT BOX
- (100) UNKNOWN PEDESTAL
- (101) UNKNOWN METAL STRUCTURE
- (102) GAS METERS
- (103) WOODEN FENCE
- (104) 3" SUPPORT POST
- (105) 6"X6" SUPPORT POST
- (106) 3.5' HANDRAIL
- (107) 2' STONEWALL
- (108) 1.3' STONEWALL
- (109) 3' STONE WALL
- (110) 1.5' STONE WALL
- (111) CONC. PAD W/ ELEC. PANEL
- (112) 60" WOOD FENCE
- (113) 60" CLF.
- (114) CONCRETE SWALE
- (115) BLDG. #462
- (116) CONC. SWALE
- (117) WOOD WALK
- (118) 2" PIPE RAILING
- (119) BARRIER
- (120) 6' CLF.
- (121) BRASS DISK
- (122) 6" METAL COVER
- (123) BUS STOP KIOSK
- (124) DUGOUT
- (125) FOUL POST
- (126) FLOWER BED

EXISTING SANITARY SCHEDULE

- (1) E. SAN. M.H.
RIM=10.13
INV. 6" (NE) = 3.53
INV. 6" (W) = 3.57
INV. 10" (SW) = 3.43
INV. 6" (SW) = 3.73
- (2) E. SAN. M.H.
RIM=7.66
INV. 6" (NE) = 1.21
INV. 6" (SW) = 1.23
- (3) E. SAN. M.H.
RIM=9.09
INV. 6" (NE) = 2.64
INV. 6" (SW) = 2.66
INV. 4" (SW) = 2.79
- (4) E. SAN. M.H.
RIM=3.76
INV. 6" (SE) = 0.71
- (5) E. SAN. M.H.
RIM=4.37
INV. 6" (SW) = 0.57
INV. 6" (NW) = 0.37
INV. 6" (SE) = 0.33
INV. 6" (NE) = 0.27
- (6) E. SAN. M.H.
RIM=4.22
INV. 6" (NW) = 1.72
INV. 6" (W) = 1.62
INV. 6" (E) = 1.62
- (7) E. SAN. M.H.
RIM=4.81
INV. 12" (SE) = 1.41
- (8) E. SAN. M.H.
RIM=5.98
INV. 6" (NE) = 1.78
INV. 6" (SW) = 1.83
- (9) E. SAN. M.H.
RIM=5.17
INV. 6" (N) = 1.37
INV. 6" (SW) = 1.38
- (10) E. SAN. M.H.
RIM=5.83
INV. 6" (N) = 1.08
INV. 6" (S) = 1.03
- (11) E. SAN. M.H.
RIM=5.80
INV. 6" (N) = 1.08
INV. 6" (S) = 1.03
- (12) E. SAN. M.H.
RIM=5.80
INV. 6" (N) = (-)0.05
INV. 6" (S) = 0.04
- (13) E. SAN. M.H.
RIM=6.35
INV. 6" (S) = (-)0.80
INV. 8" (NW) = (-)0.77
- (14) E. SAN. M.H. (FULL OF WATER)
RIM=6.41
- (15) E. SAN. M.H. (ABANDONED/FULL OF WATER AND DEBRIS)
RIM=6.17
- (16) E. SAN. M.H.
RIM=5.79
INV. 8" (NE) = (-) 2.06
INV. 8" (SE) = (-) 1.56
- (17) E. SAN. M.H. (ABANDONED)
RIM=5.47
- (18) E. SAN. M.H.
RIM=5.08
INV. 8" (NE) = (-) 2.12
INV. 8" (SW) = (-) 2.12
- (19) E. SAN. M.H.
RIM=5.21
INV. 6" (SW) = 1.78
INV. 8" (NE) = 1.81
- (20) E. SAN. M.H.
RIM=5.13
INV. 8" (NW) = 1.53
INV. 8" (NE) = 1.81
- (21) E. SAN. M.H.
RIM=5.41
INV. 8" (SW) = (-)1.08
INV. 8" (NE) = (-)1.04
INV. 8" (W) = (-)0.59
INV. 8" (SE) = (-)0.39
- (22) E. SAN. M.H.
RIM=5.62
INV. 8" (NW) = 1.92
INV. 8" (SW) = 1.97
INV. 8" (NE) = 2.52
- (23) E. SAN. M.H.
RIM=5.75
INV. 8" (NE) = (-) 1.85
INV. 8" (SE) = 1.65
INV. 8" (NW) = (-) 1.75
- (24) E. SAN. M.H.
RIM=5.31
INV. 10" (N) = (-)2.40
INV. 8" (SW) = (-)2.34
- (25) E. SAN. M.H.
RIM=5.30
INV. 10" (S) = (-)2.80
INV. 10" (SE) = (-)2.65
INV. 12" (SW) = (-)3.00
INV. 12" (SW) = (-)2.90
INV. 15" (N) = (-)2.30
- (26) E. SAN. M.H.
RIM=5.02
INV. 12" (NE) = (-)1.98
INV. 12" (NW) = (-)1.98
- (27) E. SAN. M.H.
RIM=5.73
INV. 8" (SW) = (-)0.72
INV. 8" (NE) = (-)0.59
- (28) E. SAN. M.H.
RIM=4.92
INV. 8" (SW) = 0.28
INV. " (NE) = 0.92
INV. 8" (SE) = 0.37
- (29) E. SAN. M.H.
RIM=4.64
INV. 8" (SW) = 0.62
INV. " (NE) = 0.0.64
- (30) E. SAN. M.H. (ABANDONED)
RIM=5.22
- (31) E. SAN. M.H. (ABANDONED)
RIM=5.11
- (32) E. SAN. M.H.
RIM=5.29
- (33) E. SAN. M.H.
RIM=4.69
INV. (SW) = 1.14
INV. 6" (NE) = 1.24
- (34) E. SAN. M.H.
RIM=
INV. " (SW) =
INV. " (S) =
- (35) E. SAN. M.H.
RIM=4.56
INV. 6" (SE) = 0.11
INV. 6" (NW) = (-)0.04
- (36) E. SAN. M.H.
RIM=4.03
INV. 6" (NE) = (-)0.47
INV. 6" (SE) = (-)0.57
- (37) E. SAN. M.H.
RIM=5.11
INV. 6" (NE) = (-)2.03
INV. 6" (SW) = (-)2.03
- (38) E. SAN. M.H.
RIM=5.12
INV. 8" (NE) = (-)2.49
INV. 8" (SW) = (-)2.49
- (39) E. SAN. M.H.
RIM=6.19
INV. 6" (SW) = (-) 2.86
INV. 8" (NW) = (-) 2.91
- (40) E. SAN. M.H.
RIM=5.94
INV. 8" (NW) = (-) 3.29
INV. 8" (SE) = (-) 3.17
INV. 8" (SW) = (-) 2.86
- (41) E. SAN. M.H.
RIM=4.48
INV. 8" (NW) = (-)3.79
INV. 8" (SE) = (-)3.77
INV. 8" (NE) = (-)3.62
- (42) E. SAN. M.H. (COVERED/IA.)
RIM=5.03
- (43) E. SAN. M.H.
RIM=7.11
INV. 12" (NW) = 0.86
INV. 15" (SE) = 0.16
INV. 15" (SW) = 0.31
INV. 15" (NE) = 1.11
- (44) E. SAN. M.H.
RIM=6.39
INV. 6" (SW) = 0.04
INV. 6" (E) = 0.14
- (45) E. SAN. M.H.
RIM=6.14
INV. 6" (NE) = 0.69
INV. 6" (E) = 0.74
- (46) SANITARY CLEANOUT
- (47) E. SAN. M.H.
RIM=4.30
- (48) E. SAN. M.H.
RIM=6.26
INV. " (NW) = 0.69
INV. " (SE) = 0.74
- (49) UNKNOWN SAN. STRUCTURE
- (50) METAL COVER
- (51) E. SAN. M.H. (N.F.)
INV. (NE) = N/A

EXISTING STORM SCHEDULE

- (1) E. C.I.
RIM=7.04
INV. 8" (NE) = 2.52
INV. 12" (S) = 2.42
INV. 15" (W) = 1.94
- (2) E. C.I.
RIM=6.83
INV. 15" (E) = 2.08
INV. 21" (W) = 1.08
- (3) E. C.I.
RIM=7.77
INV. 12" (SE) = (-)0.38
INV. 24" (NE) = (-)0.28
INV. 24" (NW) = (-)0.39
- (4) E. C.B.
RIM=7.69
INV. 12" (NW) = 0.26
INV. 12" (NE) = 2.08
INV. 12" (SE) = 3.14
- (5) E. C.B.
RIM=7.29
INV. 12" (NW) = 3.68
- (6) E. C.I.
RIM=7.50
INV. 6" (SE) = 5.50
INV. 12" (SW) = 4.3
- (7) E. C.I.
RIM=7.82
INV. 24" (NE) = 0.01
INV. 24" (SW) = 0.01
- (8) E. C.B.
RIM=2.71
INV. 24" (NE) = 0.01
INV. 24" (SW) = 0.01
- (9) 1.6' WOOD HEADWALL
- (10) PIPE END
INV.=(-)1.22
- (11) E. C.B.
RIM=3.87
INV. 26" (E) = (-)1.13
INV.24" (S) = (-)0.88
- (12) E. C.B.
RIM=2.39
INV. 12" (NW) = (-)0.61
- (13) E. C.B.
RIM=3.55
INV. 12" (SE) = (-)0.40
INV. 15" (NW) = (-)0.80
INV. 26" (W) = (-)0.80
INV. 28" (NE) = (-)0.40
- (14) E. C.B.
RIM=4.87
INV. 15" (SE) = 0.97
INV. 15" (NW) = 1.07
- (15) E. C.B.
RIM=2.80
INV. 12" (NE) = 0
INV. 18" (NW) = 0
INV. 28" (NE) = (-)0.15
INV. 28" (SW) = (-)0.25
- (16) E. C.B. (ABANDONED)
RIM=4.19
- (17) E. S. MH. (ABANDONED)
RIM=3.73
- (18) E. S. MH. (ABANDONED)
RIM=4.03
- (19) E. C.B.
RIM=2.62
- (20) E. C.B. (FULL OF DEBRIS)
RIM=1.97
- (21) E. C.B.
RIM=6.04
INV. 18" (N) = 0.60
INV. 24" (SW) = 0.44
- (22) E. C.B. (FULL OF DEBRIS)
RIM=5.52
INV. = 3.28
- (23) E. C.B.
RIM=6.17
INV. 18" (E) = 1.97
INV. 18" (N) = 1.07
INV. 18" (S) = 0.95
- (24) E. C.B.
RIM=5.64
INV. 12" (E) = 2.47
INV. 12" (N) = 2.4
INV. 18" (W) = 2.51
- (25) E. C.B.
RIM=5.15
INV. 12" (E) = 2.47
INV. 12" (N) = 2.4
- (26) E. C.I.
RIM=5.68
INV. 12" (N) = 2.01
INV. 18" (S) = 1.37
- (27) E. C.I.
RIM=5.50
INV. 12" (S) = 2.50
- (28) E. S. MH.
RIM=5.65
INV. 12" (S) = 2.7
- (29) E. C.B. (FULL OF DEBRIS)
RIM=3.58
- (30) E. C.B. (FULL OF DEBRIS)
RIM=3.23
- (31) E. C.B. (FULL OF DEBRIS)
RIM=3.99
- (32) E. C.B. (FULL OF DEBRIS)
RIM=4.90
- (33) E. C.B. (FULL OF DEBRIS)
RIM=4.70
- (34) E. C.B. (FULL OF WATER)
RIM=3.90
- (35) E. S. M.H.
RIM=7.11
INV. 12" (NW) = 0.86
INV. 15" (SE) = 0.16
INV. 15" (SW) = 0.31
INV. 15" (NE) = 1.11
- (36) E. S. MH.
RIM=5.15
INV. 18" (NE) = 0.60
INV. 24" (SW) = 0.33
- (37) E. S. MH.
RIM=5.32
INV. 18" (SW) = 0.80
- (38) E. C.B.
RIM=4.48
INV. = 0.56
- (39) E. C.I.
RIM=6.03
INV. 15" (NE) =2.68
- (40) E. C.B. (FULL OF DEBRIS)
RIM=5.38
INV. 15" (SW) =2.08
- (41) E. C.B.
RIM=3.91
INV. = 2.26
- (42) E. C.B.
RIM=3.90
INV. = 2.25
- (43) E. C.I. (FULL OF DEBRIS)
RIM=6.00
INV.= 4.80
- (44) E. C.B. (FULL OF DEBRIS)
RIM=5.77
INV.= 2.92
- (45) E. C.B. (FULL OF DEBRIS)
RIM=4.73
INV.= 1.58
- (46) E. C.B. (FULL OF DEBRIS)
RIM=5.16
INV.= 2.56
- (47) E. C.B. (FULL OF DEBRIS)
RIM=5.02
- (48) E. C.I.
RIM=4.40
INV. = 1.80
- (49) E. C.B.
RIM=4.45
INV.15" (NW) = 1.95
- (50) E. C.B.
RIM=4.68
INV.15" (SE) = 1.93
INV.15" (N) = 1.78
INV.15" (NW) = 1.78
- (51) E. S. MH.
RIM=5.82
INV.15" (S) = 2.02
- (52) E. C.B.
RIM=5.24
INV.12" (NE) = 1.97
INV.15" (SE) = 1.83
INV.15" (NW) = 1.83
- (53) E. S. MH.
RIM=5.90
INV.12" (SW) = I/A
- (54) E. S. MH.
RIM=5.87
INV.15" (NW) = 1.62
INV.18" (SE) = 1.57
- (55) E. S. MH.
RIM=5.48
INV.15" (SE) = 1.46
INV.18" (NE) = 1.50
- (56) E. C.B.
RIM=5.20
INV.12" (NE) = 1.40
INV.18" (SE) = 1.45
- (57) E. C.B.
RIM=5.20
INV.12" (NE) = 1.40
INV.18" (SE) = 1.45
- (58) PIPE END
INV.=8.59
- (59) E. C.B. (FULL OF DEBRIS)
RIM=4.90
INV.12" (NE) = 2.40
- (60) E. C.B. (FULL OF DEBRIS)
RIM=4.05
INV.12" (SW) = 2.05
- (61) E. C.B. (FULL OF DEBRIS)
RIM=4.05
INV. = 1.05
- (62) E. C.I.
RIM=4.67
INV. 12" (NE) = 2.47
- (63) E. C.I.
RIM=4.61
INV. 12" (SW)= 2.46
INV. 12" (NW)= 2.51
- (64) E. C.I.
RIM=4.21
INV. 15" (NW)= 2.01
- (65) E. C.B.
RIM=4.66
INV. 15" (SW)= 1.56
INV. 15" (SE)= 1.66
- (66) E. C.I.
RIM=5.90
INV. 15" (W)= 1.20
INV. 15" (NE)= 1.30
- (67) E. S. MH..
RIM=5.56
INV. 15" (W)= 1.11
INV. 15" (E)= 1.26
- (68) E. C.B.
RIM=4.87
INV. 12" (SW)= 0.63
INV. 15" (N)= 0.67
INV. 15" (E)= 1.00
- (69) E. C.B.
RIM=5.53
INV. 12" (NE)= 1.38
INV. 15" (S)= 0.61
INV. 18" (NW)= 0.48
- (70) E. S. MH.
RIM=5.94
INV. 12" (SE)= 1.34
INV. 15" (NW)= 1.19
- (71) E. C.B.
RIM=5.52
INV. 12" (SE)= 1.92
INV. 15" (NW)= 1.72
- (72) PIPE END
INV.=8.59
- (73) E. C.B.
RIM=5.01
INV. 12" (SE)= 3.61
INV. (NW)= 3.56
- (74) E. C.B.
RIM=5.11
INV. 12" (NW)= 3.71
INV. (SE)= 3.76
- (75) E. C.B.
RIM=5.01
INV. 12" (NW)= 3.79
- (76) E. S. MH.
RIM=5.84
INV. 12" (SW)= 1.94
INV. 12" (NE)= 1.80
INV. 15" (NW)= 1.85
- (77) E. C.B. (FULL OF DEBRIS)
RIM=4.21
INV. 12" (NW)= 2.71
- (78) E. C.I.
RIM=3.95
INV. 12" (S)= 2.05
- (79) E. C.B. (FULL OF DEBRIS)
RIM=3.61
- (80) E. S. MH.
RIM=5.46
INV. " (SW)=
INV. 8" (NE)= 3.08
INV. 15" (SE)= 1.61
INV. 15" (NW)= 1.66
- (81) E. C. B.
RIM=3.78
INV.18" (SE)= 0.88
INV.18" (SW)= 0.90
- (82) E. C.B.
RIM=5.59
INV.18" (SE)= 0.82
INV.18" (NW)= 1.00
- (83) E. C.B.
RIM=5.18
INV.15" (E)= 1.43
INV.18" (NW)= 1.36
- (84) E. C.I.
RIM=3.72
INV.12" (NE)= 1.47
INV.15" (W)= 1.47
- (85) E. C.B.
RIM=5.22
INV.12" (W)= 2.32
INV.12" (E)= (ABANDONED/CAPPED OFF)
- (86) E. C.B.
RIM=5.22
INV.12" (W)= (ABANDONED)
INV.12" (E)= (ABANDONED/CAPPED OFF)
- (87) E. C.B. (I/A)
RIM=3.58
- (88) E. C.B. (I/A)
RIM=3.90
- (89) E. C.B. (CAN NOT OPEN)
RIM=4.89
- (90) E. C.B. (FULL OF DEBRIS)
RIM=5.18
- (91) E. C.B.
RIM=4.06
INV.15" (NW)= 0.86
- (92) E. C.I.
RIM=3.90
INV.12" (SW)= 1.80
INV.15" (SE)= 1.40
- (93) E. C.B.
RIM=3.86
INV.15" (NW)= 0.95
- (94) E. C.B.
RIM=3.40
INV.15" (NW)= 0.15
INV.15" (SE)= 0.50
- (95) E. C.B.
RIM=2.59
INV.15" (NE)= (-)0.06
INV.15" (SE)= 0.07
- (96) E. C.B.
RIM=2.71
INV.15" (SW)= (-)0.54
INV.18" (NW)= (-)0.64
- (97) E. C.B.
RIM=6.29
INV.18" (N)= (-)1.21
INV.15" (NE)= (-)1.16
- (98) E. C.B.
RIM=5.79
INV.18" (N)= (-)1.53
INV.18" (S)= (-)1.51
- (99) E. C.I.
RIM=5.23
INV.15" (NW)= 2.88
- (100) E. C.B. (FULL OF DEBRIS)
RIM=5.03
- (101) E. C.B. (FULL OF DEBRIS)
RIM=4.99
- (102) E. C.B.
RIM=5.76
INV.12" (NW)= 2.88
- (103) E. C.B.
RIM=6.26
INV. 15" (SW)= 2.04
INV. 12" (SE)= 2.14
- (104) ROOF DRAIN
- (105) PIPE END
INV.=9.05
- (106) PIPE END
INV.=9.06
- (107) PIPE END
INV.=8.94
- (108) PIPE END
INV.=8.98
- (109) PIPE END
INV.=8.26
- (110) PIPE END
INV.=8.30

EXISTING ELECTRICAL SCHEDULE

- (1) E. ELEC. M.H.
RIM=6.17
- (2) E. ELEC. M.H.
RIM=8.05
- (3) E. ELEC. M.H.
RIM=6.91
- (4) E. ELEC. M.H.
RIM=11.15
- (5) E. ELEC. M.H.
RIM=10.09
- (6) E. ELEC. M.H.
RIM=10.15
- (7) E. ELEC. M.H.
RIM=9.91
- (8) E. ELEC. M.H.
RIM=10.07
- (9) E. ELEC. M.H.
RIM=7.49
- (10) E. ELEC. M.H.
RIM=6.71
- (11) E. ELEC. M.H.
RIM=4.76
- (12) E. ELEC. M.H.
RIM=5.37
- (13) E. ELEC. M.H.
RIM=4.30
- (14) E. ELEC. M.H.
RIM=5.54
- (15) E. ELEC. M.H.
RIM=4.98
- (16) E. ELEC. M.H.
RIM=5.32
- (17) E. ELEC. M.H.
RIM=5.57
- (18) E. ELEC. M.H.
RIM=5.53
- (19) E. ELEC. M.H.
RIM=5.98
- (20) E. ELEC. M.H.
RIM=5.63
- (21) ELECTRIC OULET
- (22) E. ELEC. MH.
RIM=5.01
- (23) E. ELEC. MH.
RIM=6.56

SURVEY NOTES

1. TOPOGRAPHIC SURVEY PREPARED BY C. ALLAN BAMFORTH, JR., ENGINEER – SURVEYOR LTD., DATED MARCH 2004
2. THIS SURVEY DOES NOT GUARANTEE THE EXISTENCE/NONEXISTENCE, SIZE, TYPE AND/OR LOCATION OF UNDERGROUND UTILITIES. UTILITIES SHOWN ARE BASED ON ABOVE GROUND UTILITY STRUCTURES (i.e., VALVES, MANHOLES, ETC...) AND AVAILABLE UTILITY MAPS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
3. ELEVATIONS ARE IN FEET AND REFER TO NORTH AMERICAN VERTICAL DATUM (NAVD) 1988 AND ARE BASED ON NATIONAL GEODETIC SURVEY (NGS) CONTROL, STATION A312. ELEV. = 5.94
4. TEMPORARY BENCHMARK (TBM) IS A "□" CUT ON TOP OF CURB INLET AS INDICATED. ELEVATION = 6.98
5. COORDINATES SHOWN REFER TO THE VIRGINIA STATE PLANE SYSTEM, SOUTH ZONE NAD 1983/93 AND ARE BASED ON NGS CONTROL STATIONS VETERAN AND 114 0065. COORDINATE VALVES SHOWN ARE EXPRESSED IN U.S. SURVEY FEET.

EXISTING TELEPHONE SCHEDULE

- (1A) E. TEL. M.H.
RIM=6.18
- (2A) E. TEL. M.H.
RIM=
- (3A) E. TEL. M.H.
RIM=7.12
- (4A) E. TEL. M.H.
RIM=4.84
- (5A) E. TEL. M.H.
RIM=7.88
- (6A) E. TEL. M.H. (FIBER OPTIC)
RIM=6.61
- (7A) E. TEL. M.H.
RIM=6.68
- (8A) E. TEL. M.H.
RIM=5.65
- (9A) E. TEL. M.H. (FIBER OPTIC)
RIM=4.51
- (10A) E. TEL. M.H. (FIBER OPTIC)
RIM=5.32
- (11A) E. TEL. M.H.
RIM=5.07
- (12A) E. TEL. M.H.
RIM=4.17
- (13A) E. TEL. M.H.
RIM=5.38
- (14A) E. TEL. M.H.
RIM=6.74
- (15A) E. TEL. M.H.
RIM=5.43
- (16A) E. TEL. M.H.
RIM=5.68
- (17A) E. TEL. M.H. (FIBER OPTIC)
RIM=5.68
- (18A) E. TEL. M.H. (FIBER OPTIC)
RIM=5.78
- (19A) E. TEL. M.H.
RIM=5.94
- (20A) E. TEL. M.H.
RIM=5.57
- (21A) E. TEL. M.H. (FIBER OPTIC)
RIM=5.80
- (22A) E. TEL. M.H. (FIBER OPTIC)
RIM=5.50
- (23A) E. TEL. M.H.
RIM=5.61
- (24A) E. TEL. M.H.
RIM=4.85
- (25A) E. TEL. M.H.
RIM=5.55
- (26A) E. TEL. M.H.
RIM=5.53
- (27A) E. TEL. M.H.
RIM=6.77
- (28A) E. TEL. M.H.
RIM=6.59
- (29A) TELEPHONE PEDESTAL
- (30A) EMERGENCY CALL BOX

EXISTING MANHOLE SCHEDULE

- [1A] E. M.H.
RIM=7.02
- [2A] E. M.H.
RIM=6.18
- [3A] E. M.H.
RIM=5.67
- [4A] E. M.H.
RIM=8.14
- [5A] E. M.H. (IA)
RIM=9.25
- [6A] E. M.H. (FIBER OPTIC)
RIM=6.66
- [7A] E. M.H. (FIBER OPTICS)
RIM=6.55
- [8A] E. M.H. (FIBER OPTICS)
RIM=6.16
- [9A] TRAFFIC CONTOL HANDHOLE
RIM=6.67
- [10A] UTILITY HANDHOLE
- [11A] E. M.H. (FIBER OPTICS)
RIM=5.60
- [12A] E. M.H. (FIBER OPTICS)
RIM=5.66

EXISTING STEAM SCHEDULE

- [A] E. M.H.
RIM=10.61
- [B] E. M.H.
RIM=

EXISTING CABLE SCHEDULE

- (A) CABLE PEDESTAL
- (B) CABLE BOX

EXISTING WATER SCHEDULE

- [1] SMALL WATER FOUNTAIN
- [2] WATER METER VAULT
- [3] WATER VAULT
- [4] WATER VAULT
- [5] WATER FAUCET
- [6] FIRE SHUT OFF VALVE

PT.	NORTHING	EASTING	ELEV.	DESC.
1	3531992.70	12124178.56	10.55	PK NAIL
7	3532551.78	12124396.74	10.67	PK NAIL
14	3533203.78	12124651.16	10.64	PK NAIL
19	3533767.22	12124855.67	10.70	PK NAIL
25	3534347.63	12125007.83	10.70	PK NAIL
30	3534831.32	12125134.56	10.69	PK NAIL
37	3535508.44	12125312.10	10.84	PK NAIL
43	3536088.84	12125464.15	10.87	PK NAIL
49	3536669.33	12125616.22	10.71	PK NAIL
56	3537346.52	12125793.65	10.82	PK NAIL
200	3537115.01	12125398.93	6.79	DRILL HOLE
202	3536646.44	12125281.05	4.78	DRILL HOLE
204	3536162.53	12125144.18	5.02	DRILL HOLE
206	3535659.50	12124970.76	5.68	PK NAIL
208	3534943.91	12124809.44	5.66	DRILL HOLE
210	3534475.87	12124631.52	6.07	DRILL HOLE
212	3533924.91	12124451.52	5.48	IRON PIN
214	3533202.80	12124291.45	5.71	IRON PIN
215	3532921.76	12124303.48	6.17	IRON PIN
216	3532652.01	12124220.40	17.21	IRON PIN

LEGEND

	EXISTING (E.)
TOP OF CURB OR CONCRETE (TC) ELEVATION / ELEVATION OF GUTTER, PAVEMENT OR GROUND	ELEV / ELEV
SPOT ELEVATION	+ELEV
BITUMINOUS PAVEMENT	
BUILDING	
BUSH	
CONCRETE (CONC.)	CONC.
CURB	
GURB AND GUTTER	
FLOWER BED (F.B.)	F.B.
FENCE	
SIGN	
TREE	12"
GAS MAIN	2" E. GAS
OVERHEAD (OH.) LINE	E. OH. LINE
SANITARY (SAN.) SEWER	8" E. SAN.
STORM (S.) SEWER	12" E.S.
UNDERGROUND (UG.) ELECTRIC (ELEC.)	E. UG. ELEC.
UNDERGROUND (UG.) TELEPHONE (TEL.)	E. UG. TEL.
WATER (W.) MAIN	6" E.W.
BOLLARD (BOLL.)	BOLL.
CATCH BASIN (C.B.)	
CLEAN OUT (C.O.)	C.O.
CURB INLET (C.I.)	
FIRE HYDRANT (F.H.)	
GAS VALVE (G.V.)	G.V.
GUY WIRE	
LIGHT POLE	
MANHOLE (MH.)	E. MH.
METAL (MTL.) COVER (CVR.)	
POST INDICATOR VALVE (P.I.V.)	
ROOF DRAIN (R.D.)	R.D.
UTILITY POLE	
CLOTHES LINE POLE	
WATER VALVE (W.V.)	
ABANDONED	ABAND.
BARBED WIRE	B.W.
CHAIN LINK FENCE	CLF
FRESH WATER	F.W.
HANDICAP	H.C.
INACCESSIBLE	I/A
METAL	MTL.
PEDESTAL	PED.
STEAM	STM.
WITH	W/
CONCRETE SIDE WALK	CSW

US Army Corps of Engineers
Norfolk District

REV. | DATE | DESCRIPTION | BY | APP.

Norfolk District
US Army Corps of Engineers
Norfolk, Virginia

22 DECEMBER 2004

DESIGNED: FAZ | CHECKED: BOT | DATE: 22 DEC 04
DRAWN: NAP | SUBMITTED: TLD | SCALE: AS SHOWN
PROJECT NO. 60772 | NORFOLK DISTRICT FILE NO. FM 346-1.11
DRAWING NO. 711-14-14 | SPECIFICATION NO.
Last saved on: | Plot scale: 1:1
File name:

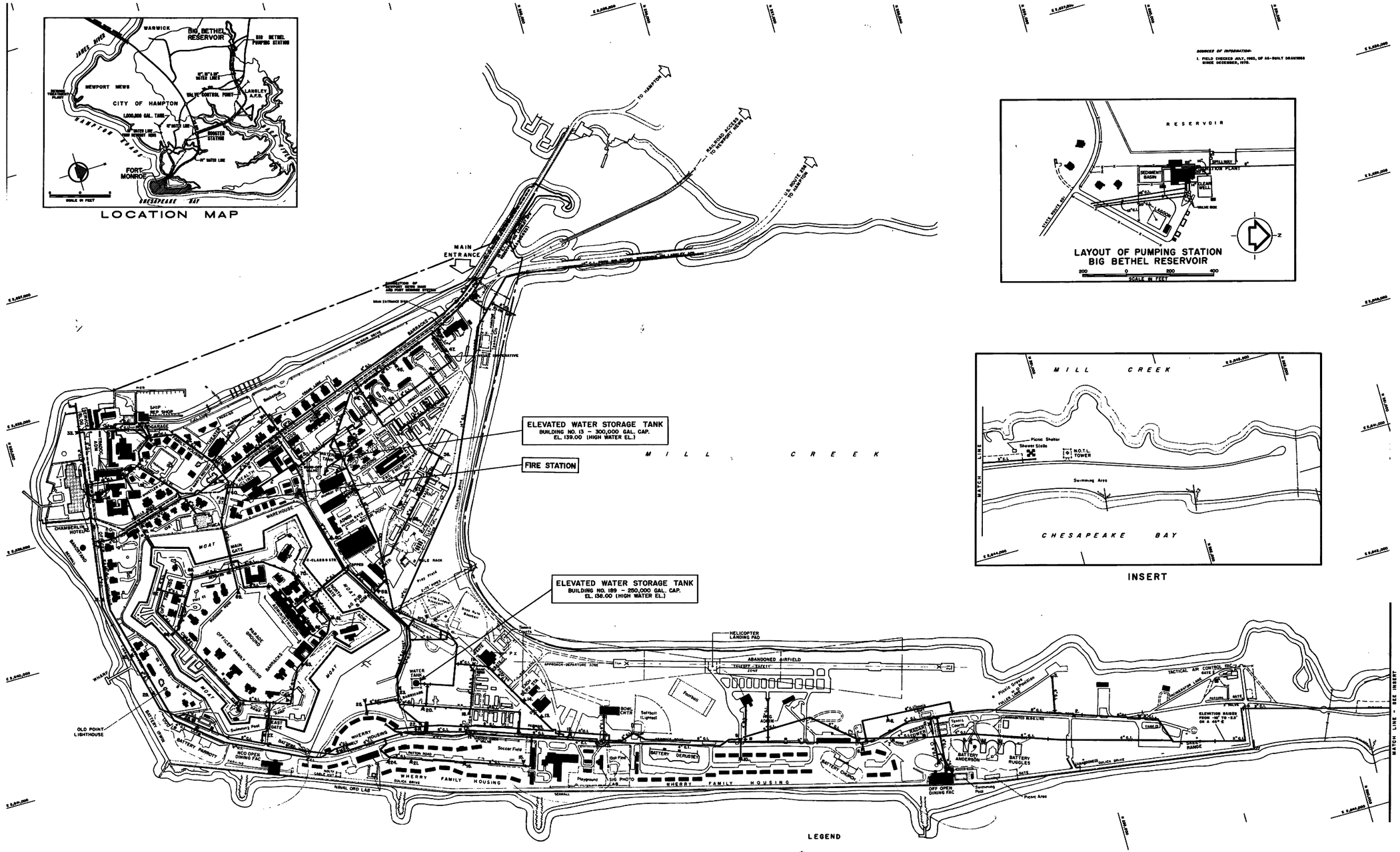
WHERRY FAMILY HOUSING REPLACEMENT
FORT MONROE
HAMPTON, VA

UTILITIES SITE PLAN LEGEND

C-109
SHEET OF

REV/DATE

LOCATION MAP



LAYOUT OF PUMPING STATION
BIG BETHEL RESERVOIR

INSERT

SOURCES OF INFORMATION:
1. FIELD CHECKED JULY, 1983, OF AS-BUILT DRAWINGS SINCE DECEMBER, 1970.

LEGEND

- FORT MONROE WATER MAIN, WITH SIZE & MATERIAL
- NEWPORT NEWS WATER MAIN, WITH SIZE & MATERIAL
- VALVE
- POST INDICATOR VALVE
- FORT MONROE FIRE HYDRANT WITH NUMBER
- NEWPORT NEWS FIRE HYDRANT
- SHUT-OFF VALVE

NOTES:
1. PIPE MATERIALS ARE CAST IRON (C.I.) AND WROUGHT IRON (W.I.).
2. CATHODIC PROTECTION IS PROVIDED IN BOTH ELEVATED WATER STORAGE TANKS.
3. EACH FIRE HYDRANT HAS A CUT-OFF VALVE.

NOTE REFERENCE DRAWING

THIS DRAWING PROVIDED FOR RFP RESPONDENT INFO ONLY. DATA AND INFO ARE FROM MASTER PLAN FILES. THIS DRAWING IS FURNISHED FOR CONTRACTOR REFERENCE PURPOSES. THE GOVERNMENT DOES NOT GUARANTEE AUTHENTICITY OR ACCURACY OF THIS 1983 DRAWINGS.

1" = 400' 0' 100' 200' 400' 800' 1200'

US Army Corps of Engineers
Norfolk District

NO.	DATE	DESCRIPTION	BY

DESIGNED FAZ | DRAWN NAP | CHECKED BOT | SUBMITTED TLD | DATE 22 DEC 04 | SCALE AS SHOWN | PROJECT NO. 60772 | DRAWING NO. 711-14-14 | SURVEY FILE NO. FM 346-1.12 | BENCHMARK NO. | Last revised on: | File name: | Plot scale: 1:1

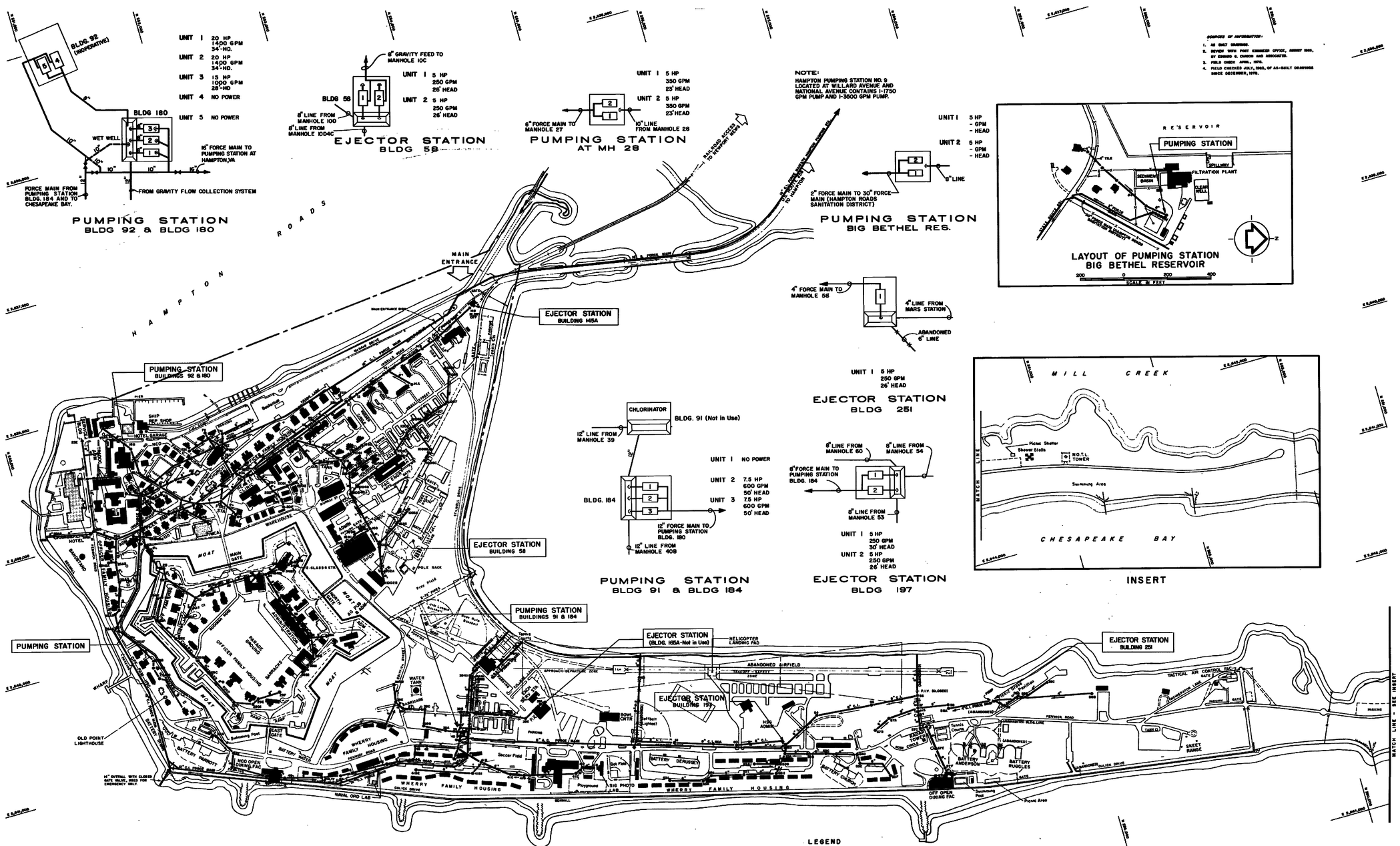
Norfolk District
US Army Corps of Engineers
Norfolk, Virginia

22 DECEMBER 2004

WHERRY FAMILY HOUSING REPLACEMENT
FORT MONROE
HAMPTON, VA

GENERAL WATER MAP
(REFERENCE DRAWING)

RC-101
SHEET OF



TABULATION OF MANHOLES

NO.	TOP	INV.	NO.	TOP	INV.	NO.	TOP	INV.	NO.	TOP	INV.	NO.	TOP	INV.	NO.	TOP	INV.	NO.	TOP	INV.	NO.	TOP	INV.	NO.	TOP	INV.	NO.	TOP	INV.
1			10A	5.9	5.9	11	6.9	5.9	69			85A0			2C	5.0	-0.7	38A			49	6.0	-1.0	89	5.6	-1.5	97C			50C0		
2	5.5	-1.0	10B	5.9	5.9	12	6.9	5.7	69			85A1	7.7	5.1	2D	5.0	-0.8	39	6.1	-0.8	49B	7.5	-1.5	90	5.9	-1.5	97E			50C0		
3	5.3	-1.20	10C	5.8	5.5	13	6.9	5.7	69	6.7	1.8	85A2			2E	5.0	-0.0	39A	6.1	5.1	49B	7.5	-1.5	90A	5.4	-1.0	97F			50C		
4	5.3	-1.70	10D	5.8	5.5	14	6.9	5.5	69A			85A3	5.8	4.3	2E0	5.0	-0.3	39B	6.3	0.7	49C	7.0	5.8	90B	7.0	-1.5	97G			50C0		
4A	5.7	-1.10	10D0	5.8	5.7	14A			69B	5.2	1.8	85A4	5.7	4.7	2F	5.0	-0.4	39C	6.2	0.7	49D			90C	5.6	-1.0	97H			50A0		
4B			10D1	5.7	5.64	14B	6.9	6.4	69C	5.2	2.9	85A5	5.3	4.8	2F0	5.0	-3.0	39D	6.4	1.9	49E			90F	9.0	0.64	98	5.0	5.7	50A0		
4C			10D2	7.0	6.38	14C			69C0	5.2	2.5	85A6	5.3	-1.7	3G4			39E			49F			90G	5.4	-1.0	99			50A		
5	6.8	-1.0	10E	5.9	1.0	15			69C1	5.7	5.5	85A7	5.5	1.7	3I	4.0	-3.4	39E0			49G			90H	5.3	-4.07	40A	5.7	-0.7	50A0		
6	7.2	-0.5	10F	7.4	5.7	16	5.7	-4.90	69C2	5.0	4.8	85A8	5.5	5.1	3J			39E1			49H	7.5	1.8	90I	5.2	-0.50	41			50B		
7	7.3	0.20	10G	7.0	5.7	16A	6.4	-0.20	71	5.5	5.8	85B3			3K			39F	6.18	0.92	49I	7.5	0.5	90J	5.2	0.82	42	4.5	1.0	50C		
7A	5.4	-1.0	10G0	6.8	5.2	16B	6.4	-1.0	72	5.4	5.5	85C	5.20	-0.07	3K0			39F0	5.70	3.09	49J	7.7	0.7	90J0	5.4	5.18	43	7.0	-0.4	50D		
7A1	7.4	5.07	10G0B	7.4	5.0	16A	6.9	-0.2	73	5.5	5.5	85D	5.5	0.5	3K1			39F1	5.70	5.70	49K	7.2	1.4	90K		0.68	70V	7.0	5.01	50A
7A2	5.5	5.00	10G1	7.5	5.6	16C	6.4	0.4	73A	7.5	-4.08	85E	5.5	1.0	3K2	4.7	-1.3	39G	5.9	5.07	50	7.0	-1.00	91	7.0	5.00	70W	7.0	5.9	50B
7B	5.9	5.2	10G1A	7.4	5.3	16C	6.6	5.8	73B	7.5	-4.30	86	5.2	4.5	3KA			39I	6.3	5.6	51	6.8	0.1	91	5.3	-1.5	70X4A	7.0	1.05	50
7B1	7.1	4.90	10H			16D			73C	8.7	-5.70	86A	5.4	1.5	3KJ			40			51A	6.9	0.5	91A0	5.9	-1.57	70X4B	7.0	1.05	50A
7C	7.1	5.08	10H0			16E			74	6.4	-5.38	86B	5.5	1.4	3L	4.9	-0.6	40C			51B	6.6	5.8	91B	5.20	-1.05	70X0	5.20	0.07	50C
8	7.0	.58	10H1	6.9	5.1	17	6.0	-0.3	75A	5.7	-3.0	87	5.07	-4.00	3M	5.0	0.1	40C			51C			91C	5.8	1.0	70X0A	7.0	5.00	50D
8A			10H2	5.9	4.8	17A			75A1			88	7.0	-4.05	3N	4.5	0.2	40D	6.5		51D	11.3	4.6	91A			71A	5.0	-2.2	
8B	6.9	1.0	10H0	7.4	5.9	18	6.6	0.3	75A2	7.1	1.0	89	5.0	-3.0	3O	4.5	0.4	41	6.5	-3.0	51E	6.0	6.5	91D	5.9	-2.2	71B	5.0	-2.2	
9	6.7	5.0	10I0	7.4	5.9	19	7.24	0.7	75A3			89A		-3.5	3OA			41A	6.3	-4.77	51F	6.1	-4.5	91E			71F	5.4	-3.3	

ADDENDUM

NO.	TOP	INV.

● SEE ADDENDUM FOR ADDITIONAL STRUCTURE DATA IN NUMERICAL SEQUENCE

LEGEND

- 8" — SANITARY SEWER MAIN, WITH SIZE
- 20A0 — MANHOLE, WITH NUMBER
- FORCE MAIN — FORCE MAIN WITH VALVE
- DIRECTION OF FLOW
- A.C./C.I./S. — ASBESTOS CEMENT, CAST IRON, STEEL
- F.M. — FORCE MAIN
- P.I.V. — POST INDICATOR VALVE

NOTE: ALL SANITARY SEWER PIPE USED ON THIS POST IS VITRIFIED CLAY EXCEPT WHERE INDICATED AS OTHER.

US Army Corps of Engineers
Norfolk District

NO.	DATE	BY	DESCRIPTION

DESIGNED FAZ | CHECKED BOT | DATE 22 DEC 04
DRAWN NAP | SUBMITTED TLD | SCALE AS SHOWN
PROJECT NO. 60772 | DRAWING NO. FM 346-1.13
DRAWING NO. 711-14-14 | REFERENCE DRAWING NO.
Last revised on: | Plot scale: 1:1
File name:

Norfolk District
US Army Corps of Engineers
Norfolk, Virginia

22 DECEMBER 2004

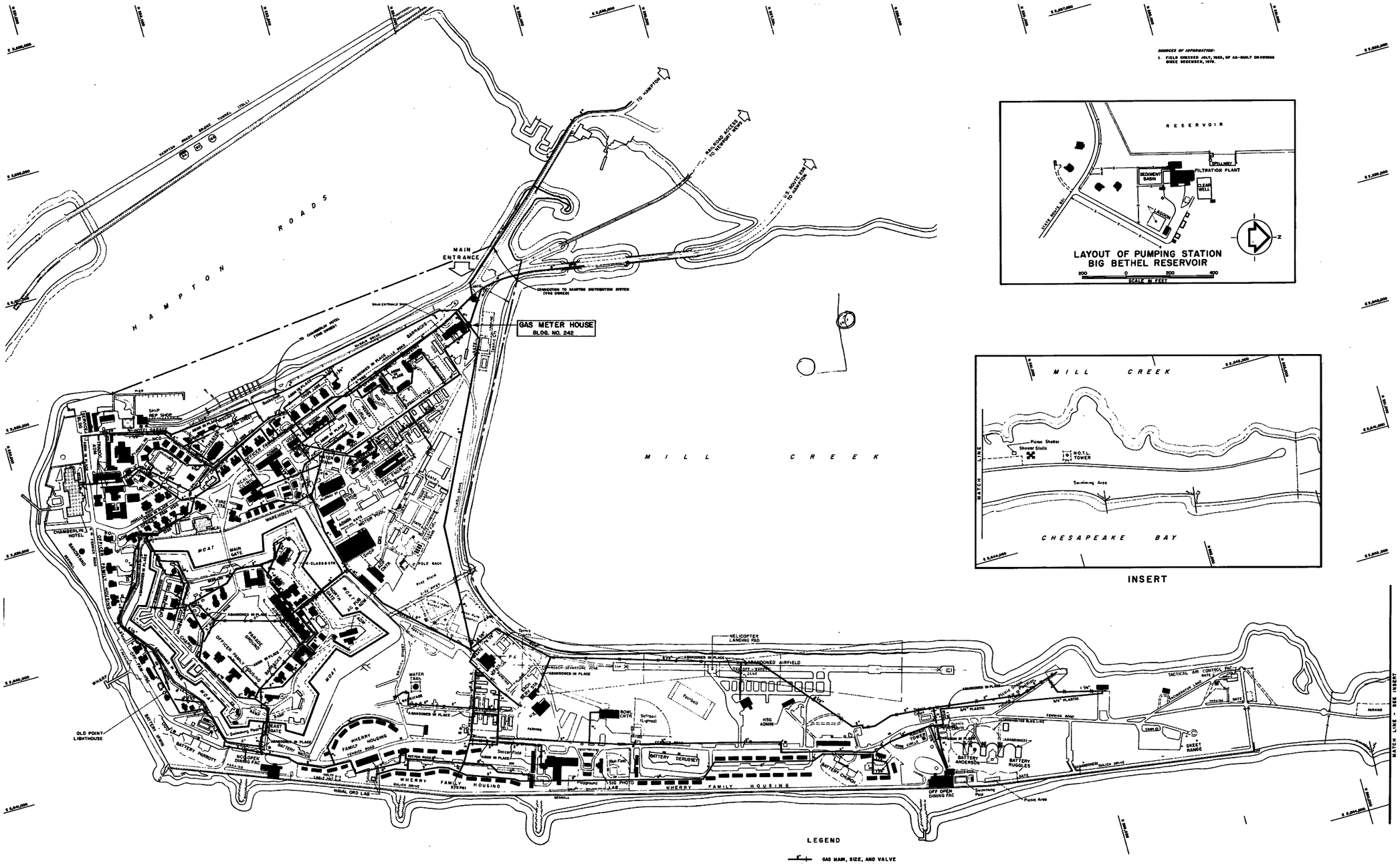
WHERRY FAMILY HOUSING REPLACEMENT
FORT MONROE
HAMPTON, VA

GENERAL SANITARY SEWER MAP (REFERENCE DRAWING)

RC-102
SHEET OF

SOURCES OF INFORMATION:

1. FIELD CHECKED JULY, 1983, OF AS-BUILT DRAWINGS SINCE DECEMBER, 1979.



INSERT

LEGEND

- GAS MAIN, SIZE, AND VALVE
- VGC — VIRGINIA NATURAL GAS CO. MAIN
- REDUCER

NOTES: 1. ALL LINES ARE STEEL PIPE, COATED & WRAPPED.
2. PRESSURE ON FEEDER MAIN – 8 PSI
3. AVERAGE PRESSURE ON GOVERNMENT LINES – 5 PSI
4. PRESSURE IN BUILDINGS – 5 WG

NOTE REFERENCE DRAWING

THIS DRAWING PROVIDED FOR RFP RESPONDENT INFO ONLY. DATA AND INFO ARE FROM MASTER PLAN FILES. THIS DRAWING IS FURNISHED FOR CONTRACTOR REFERENCE PURPOSES. THE GOVERNMENT DOES NOT GUARANTEE AUTHENTICITY OR ACCURACY OF THIS 1983 DRAWINGS.

1" = 400' 0' 100' 200' 400' 800' 1200'

US Army Corps of Engineers
Norfolk District

NO.	DATE	DESCRIPTION	BY

DESIGNED FAZ	CHECKED BOT	DATE 22 DEC 04	
DRAWN NAP	SUBMITTED TLD	SCALE AS SHOWN	
PROJECT NO. 60772		CONTRACT NO. FM 346-1.14	
DRAWING NO. 711-14-14		PROJECT/CONTRACT NO.	
Last revised on:		Plot scale: 1:1	
File name:			

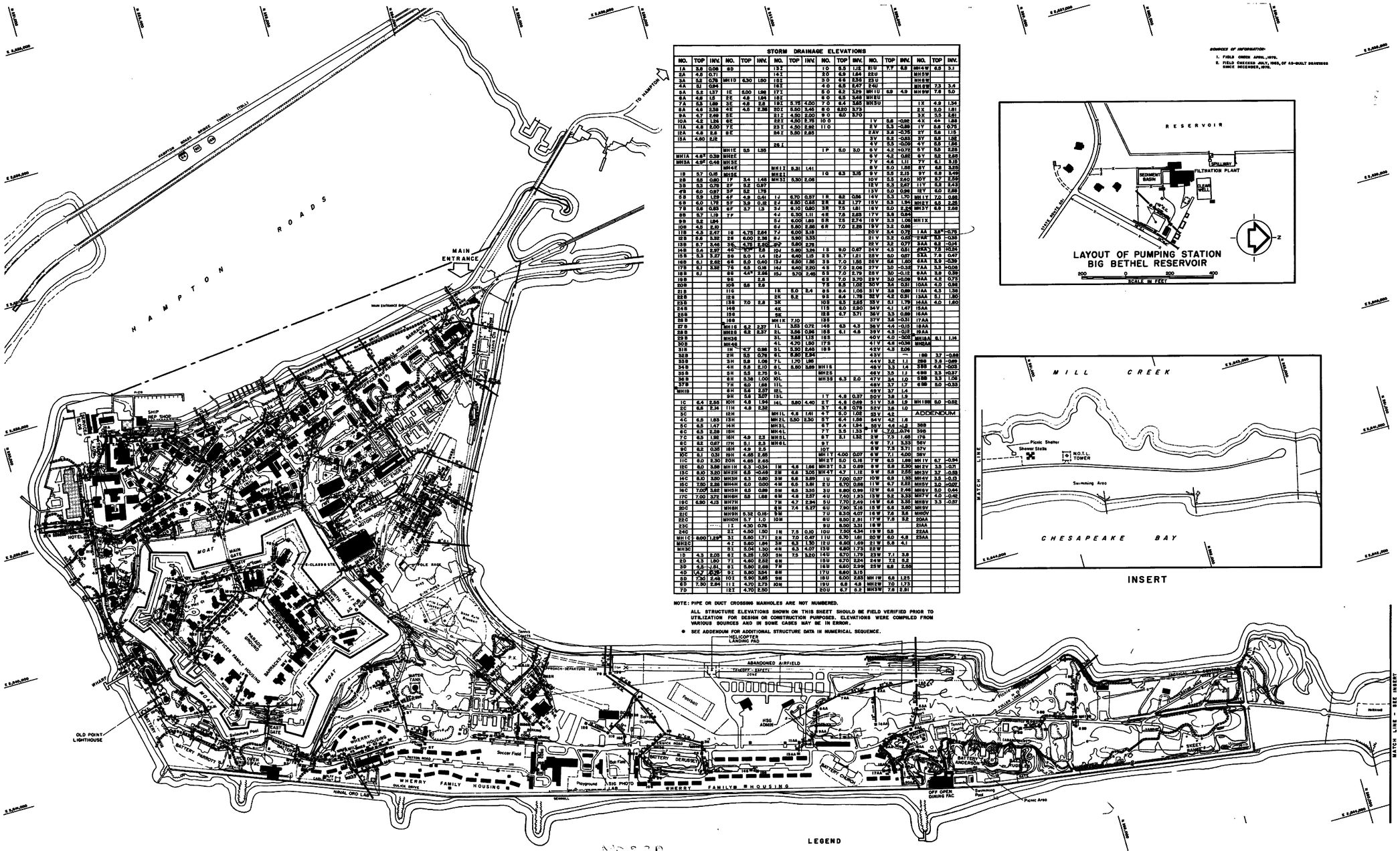
Norfolk District
US Army Corps of Engineers
Norfolk, Virginia

22 DECEMBER 2004

WHERRY FAMILY HOUSING REPLACEMENT
FORT MONROE
HAMPTON, VA

GENERAL GAS MAP
(REFERENCE DRAWING)

RC-103
SHEET OF



STORM DRAINAGE ELEVATIONS																							
NO.	TOP	INV.	NO.	TOP	INV.	NO.	TOP	INV.	NO.	TOP	INV.	NO.	TOP	INV.	NO.	TOP	INV.
1A	5.5	0.06	6D			13I			1O	5.5	1.12	21U	7.7	6.5	MH4W	6.5	3.1
2A	4.8	0.71				14I			2O	6.5	1.64	22U			MH5W		
3A	5.5	0.76	MH1D	6.30	1.50	15I			3O	6.6	2.36	23U			MH6W		
4A	5.1	0.94				16I			4O	6.5	2.47	24U			MH7W	7.3	3.4
5A	5.2	1.37	1E	6.00	1.98	17I			5O	6.2	3.25	MH1U	6.9	4.9	MH8W	7.8	5.0
6A	4.6	1.5	2E	4.8	1.94	18I			6O	6.5	3.46	MH2U					
7A	5.3	1.89	3E	4.8	2.8	19I	5.78	4.00	7O	6.4	3.85	MH3U			1X	4.9	1.34
8A	4.6	2.39	4E	4.6	2.36	20I	5.50	3.45	8O	6.50	3.73				2X	5.0	1.81
9A	4.7	2.49	5E			21I	4.50	2.00	9O	6.0	3.70				3X	3.5	2.61
10A	4.2	1.84	6E			22I	4.90	2.79	10O			1V	5.6	-0.92	4X	4.4	1.88
11A	4.8	2.00	7E			23I	4.50	2.92	11O			2V	5.3	-0.89	1Y	5.8	0.75
12A	4.8	2.8	8E			24I	5.50	2.85				2AV	5.8	-0.76	2Y	5.8	1.15
13A	4.60	2.8										3V	5.5	-0.53	3Y	5.8	1.56
						25I						4V	5.5	-0.09	4Y	5.5	1.95
			MH1E	5.5	1.35				1P	5.0	3.0	5V	4.2	+0.72	5Y	5.5	2.55
MH1A	4.8*	0.39	MH2E									6V	4.2	0.62	6Y	5.5	2.65
MH3A	4.9*	0.46	MH3E									7V	4.6	1.11	7Y	6.1	3.15
			MH4E			MH1I	5.31	1.41				8V	5.0	1.50	8Y	6.8	3.25
1B	5.7	0.15	MH5E			MH2I			1Q	6.3	3.15	9V	5.0	2.15	9Y	6.9	3.49
2B	5.5	0.80	1F	3.4	1.48	MH3I	5.30	2.06				10V	5.5	2.40	10Y	6.7	3.59
3B	5.3	0.79	2F	5.2	0.97							11V	5.5	2.67	11Y	6.5	3.43
4B	6.0	0.87	3F	5.2	1.78							13V	5.0	0.96	12Y	6.0	2.68
5B	5.5	1.29	4F	4.8	0.41	1J	6.70	0.57	1R	8.2	0.56	14V	5.5	1.70	MH1V	7.0	0.68
6B	6.0	1.72	5F	3.8	0.82	2J	6.20	0.95	2R	8.2	1.77	15V	5.3	1.94	MH2V	6.0	2.25
7B	5.6	0.65	6F	3.7	1.3	3J	6.10	0.50	3R	7.5	1.81	16V	5.0	2.24	MH3V	6.8	2.68
8B	5.7	1.9	7F			4J	6.30	1.11	4R	7.5	2.65	17V	3.8	0.94			
9B	5.2	1.84				5J	6.00	1.85	5R	7.5	2.74	18V	3.3	1.06	MH1X		
10B	4.5	2.10				6J	5.80	2.66	6R	7.0	2.85	19V	3.2	0.86			
11B	4.5	2.47	1G	4.75	2.64	7J	6.00	3.18				20V	3.4	0.73	1AA	3.8*	-0.76
12B	5.5	3.32	2G	6.00	2.36	8J	5.90	3.33				21V	3.2	0.03	2AA	5.5	-0.30
13B	5.7	3.46	3G	4.75	2.20	9J	5.80	2.78				22V	3.2	0.77	3AA	6.8	-0.14
14B	5.4	2.97	4G	5.4	2.8	10J	5.80	3.25	1S	9.0	0.67	24V	4.5	0.51	4AA	7.5	+0.24
15B	5.3	3.27	5G	5.0	1.4	12J	6.40	1.15	2S	9.7	1.21	25V	6.0	0.87	5AA	7.5	0.47
16B	6.1	2.82	6G	5.0	0.40	13J	6.50	1.35	3S	7.0	1.55	26V	6.0	1.00	6AA	5.9	-0.39
17B	5.1	3.32	7G	6.0	0.36	14J	6.40	2.20	4S	7.0	2.06	27V	3.0	-0.32	7AA	3.3	+0.06
18B	5.1		8G	4.4*	2.66	15J	5.70	2.45	5S	7.0	2.79	28V	3.0	-0.12	8AA	3.8	0.39
19B			9G		2.8				6S	7.0	3.70	29V	3.0	+0.09	9AA	4.5	0.73
20B			10G	5.5	2.6				7S	8.5	1.02	30V	3.4	0.31	10AA	4.0	0.96
21B			11G			1K	5.0	2.4	8S	9.4	1.06	31V	3.8	0.89	11AA	4.3	1.36
22B			12G			2K	5.2		9S	8.4	1.76	32V	4.2	0.31	12AA	5.1	1.80
23B			13G	7.0	2.8	3K			10S	8.5	2.65	33V	6.1	1.79	14AA	4.0	1.60
24B			14G			4K			11S	8.0	2.90	34V	4.1	1.47	15AA		
25B			15G			5K			12S	6.7	3.71	35V	3.3	0.89	16AA		
26B			16G			MH1K	7.10		13S			37V	3.8	-0.31	17AA		
27B			MH1G	5.2	2.37	1L	3.53	0.72	14S	6.3	4.3	38V	4.4	-0.15	18AA		
28B			MH2G	5.2	2.37	2L	3.56	0.36	15S	6.1	4.5	39V	4.3	-0.12	19AA		
29B			MH3G			3L	3.58	1.13	16S			40V	4.0	-0.02	MH1AA	6.1	1.14
30B			MH4G			4L	4.70	1.00	17S			41V	4.8	+0.34	MH2AA		
31B			1H	4.7	0.98	5L	5.30	2.45	18S			42V	4.3	2.06			
32B			2H	5.5	0.75	6L	5.80	2.34				43V	—		1BB	3.7	-0.68
33B			3H	5.8	1.06	7L	1.70	1.98				44V	3.2	1.1	2BB	3.8	-0.89
34B			4H	5.8	2.10	8L	5.80	3.69	MH1S			46V	3.3	1.4	3BB	4.8	-0.03
35B			5H	5.5	1.75	9L			MH2S			46V	3.5	1.1	4BB	3.3	+0.37
36B			6H	5.38	1.00	10L			MH3S	6.3	2.0	47V	3.4	1.0	5BB	3.3	1.06
37B			7H	6.0	1.68	11L						48V	3.7	1.7	6BB	5.0	-0.33
MH1B			8H	5.6	2.27	12L						49V	3.7	1.4			
			9H	5.6	3.07	13L			1T	4.8	0.37	50V	3.8	1.9			
1C	6.4	2.55	10H	4.8	1.94	14L	5.80	4.40	2T	4.6	0.49	51V	3.8	1.9	MH1BB	5.0	-0.52
2C	6.6	2.34	11H	4.8	2.32				3T	4.8	0.78	52V	3.6	1.0			
3C			12H			MH1L	4.6	1.41	4T	5.0	1.02	53V	4.2		ADDENDUM		
4C	6.5	1.83	13H			MH2L	5.50	2.30	5T	6.4	1.58	54V	4.2	1.8			
5C	6.5	1.47	14H			MH3L			6T	6.4	1.94	55V	4.4	-1.2	3BB		
6C	6.5	2.29	15H			MH4L			7T	3.6	1.33	1W	7.0	-0.74	5BB		
7C	6.5	1.92	16H	4.9	2.5	MH5L			8T	5.1	1.32	2W	7.5	1.46	1TB		
8C	6.2	0.67	17H	5.1	2.5	MH6L			9T			4W	7.1	3.35	5BV		
9C	6.2	0.38	18H	4.9	2.5				10T			5W	7.3	3.71	6TV		
10C	6.1	0.31	19H	4.65	2.65				MH1T	4.00	0.07	6W	7.1	4.00	5BV		
11C	6.0	2.30	20H	4.65	2.65				MH2T	5.0	0.16	7W	6.5	1.69	MH1V	6.7	-0.94
12C	6.0	3.58	MH1H	5.3	-0.34	1M	4.8	1.68	MH3T	5.3	0.69	8W	6.8	2.30	MH2V	3.3	-0.11
13C	6.0	3.20	MH2H	6.5	+0.49	2M	6.6	3.05	MH4T	4.7	1.15	9W	5.8	2.25	MH3V	3.7	-0.03
14C	6.10	3.80	MH3H	6.3	0.60	3M	5.6	3.59	1U	7.00	0.57	10W	6.0	1.55	MH4V	3.5	-0.13
15C	7.50	2.38	MH4H	6.0	0.00	4M	6.0	3.81	2U	6.70	0.98	11W	6.7	2.22	MH5V	3.0	-0.07
16C	7.00	3.82	MH5H	6.5	0.89	5M	6.5	3.35	3U	6.80	0.99	12W	6.8	2.46	MH6V	0.0	0.44
17C	7.00	3.72	MH6H	5.8	1.68	6M	4.9	2.57	4U	7.00	1.13	13W	6.2	3.33	MH7V	4.0	-0.42
18C	6.90	4.25	MH7H			7M	4.7	2.94	5U	7.70	2.43	14W	6.8	3.35	MH8V	3.3	-0.57
20C			MH8H			8M	7.4	5.27	6U	7.90	2.15	15W	6.8	3.60	MH9V		
21C			MH9H	5.38	0.16*	9M			7U	8.30	4.07	16W	7.6	3.6	MH10V		
22C			MH10H	5.7	1.0	10M			8U	8.50	2.31	17W	7.8	3.2	20AA		
23C			1I	4.30	0.76				9U	8.50	3.31	18W			21AA		
24C			2I	4.60	1.50	1N	7.5	0.10	10U	7.90	4.34	19W	6.8		22AA		
MH1C	8.00	1.29*	3I	5.60	1.71	2N	7.0	0.47	11U	8.50	1.81	20W	6.0	4.8	23AA		
MH2C			4I	5.60	1.64	3N	6.3	1.30	12U	6.80	1.69	21W	5.8	4.1			
MH3C			5I	5.04	1.30	4N	6.3	4.07	13U	6.80	1.73	22W					
1D	4.3	2.05	6I	5.38	1.50	5N	7.5	3.20	14U	6.70	1.79	23W	7.1	3.8			
2D	4.5	1.80	7I	4.60	2.52	6N			15U	6.70	2.24	24W	7.2	5.2			
3D	4.5	1.81	8I	5.80	2.68	7N			16U	6.80	2.99	25W	6.8	2.56			
4D	4.7	2.38*	9I	5.80	3.54	8N			17U	6.60	3.15						
5D	7.30	2.48	10I	5.90	3.85	9N			18U	6.00	2.83	MH1W	6.8	1.25			
6D	7.30	2.94	11I	4.70	2.73	10N			19U	6.8	4.8	MH2W	7.0	1.73			
7D			12I	4.70	2.50				20U	6.7	5.2	MH3W	7.8	2.91			

NOTE: PIPE OR DUCT CROSSING MANHOLES ARE NOT NUMBERED.

ALL STRUCTURE ELEVATIONS SHOWN ON THIS SHEET SHOULD BE FIELD VERIFIED PRIOR TO UTILIZATION FOR DESIGN OR CONSTRUCTION PURPOSES. ELEVATIONS WERE COMPILED FROM VARIOUS SOURCES AND IN SOME CASES MAY BE IN ERROR.

● SEE ADDENDUM FOR ADDITIONAL STRUCTURE DATA IN NUMERICAL SEQUENCE.

SOURCES OF INFORMATION:

1. FIELD CHECK APRIL, 1976.
2. FIELD CHECKED JULY, 1983, OF AS-BUILT DRAWINGS SINCE DECEMBER, 1976.

INSERT

LEGEND

- STORM SEWER, WITH SIZE
- MANHOLE WITH No.
- INLET OR SAND DRAIN WITH No.
- ENDWALL
- C.I./C.M. CAST IRON/CORRUGATED METAL
- V.C./CONC. VITRIFIED CLAY/CONCRETE
- INDEX CONTOUR
- INTERMEDIATE CONTOUR
- DEPRESSION CONTOUR
- 2% CHANCE FLOOD OUTLINE ELEV. 7.8'

NOTE REFERENCE DRAWING

THIS DRAWING PROVIDED FOR RFP RESPONDENT INFO ONLY. DATA AND INFO ARE FROM MASTER PLAN FILES. THIS DRAWING IS FURNISHED FOR CONTRACTOR REFERENCE PURPOSES. THE GOVERNMENT DOES NOT GUARANTEE AUTHENTICITY OR ACCURACY OF THIS 1983 DRAWINGS.

1" = 400'

US Army Corps of Engineers
Norfolk District

NO.	DATE	BY	DESCRIPTION

DESIGNED FAZ | DRAWN NAP | CHECKED BOT | SUBMITTED TLD | DATE 22 DEC 04 | SCALE AS SHOWN | PROJECT NO. 60772 | DRAWING NO. FM 346-711-14-14 | DRAWING NO. 711-14-14 | Last revised on: | File name: | Plot scale: 1:1

Norfolk District
US Army Corps of Engineers
Norfolk, Virginia

22 DECEMBER 2004

WHERRY FAMILY HOUSING REPLACEMENT
FORT MONROE
HAMPTON, VA

GENERAL STORM DRAINAGE MAP

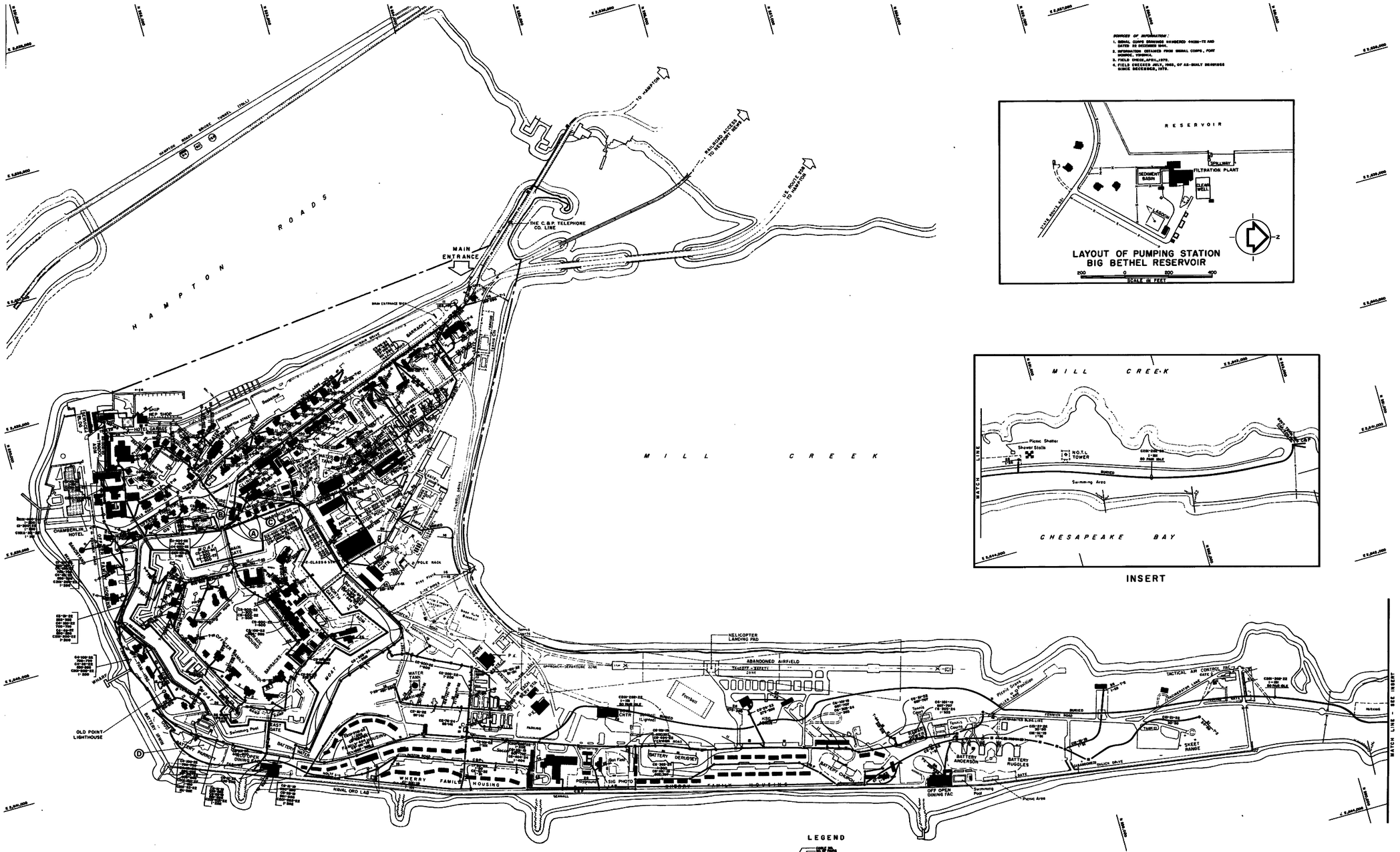
(REFERENCE DRAWING)

RC-104

SHEET OF

SOURCES OF INFORMATION:

1. SIGNAL CORPS DRAWINGS NUMBERED 44030-72 AND DATED 22 DECEMBER 1944.
2. INFORMATION OBTAINED FROM SIGNAL CORPS, FORT MONROE, VIRGINIA.
3. FIELD CHECK, APRIL, 1978.
4. FIELD CHECKED JULY, 1983, OF AS-BUILT DRAWINGS SINCE DECEMBER, 1978.



INSERT

LEGEND

- CABLE
- TERMINAL
- MANHOLE
- POLE

(A) TELEPHONE EXCHANGE-BLDG. No. 102.

(B) SWITCHBOARD - BLDG. No. 77 1000 LINE CAPACITY.

(C) FIRE STATION - BLDG. No. 53 DELUXE MANUAL TYPE FIRE REPORTING SWITCHBOARD.

(D) COMMUNICATIONS CENTER - BLDG. No. 234.

NOTE REFERENCE DRAWING

THIS DRAWING PROVIDED FOR RFP RESPONDENT INFO ONLY. DATA AND INFO ARE FROM MASTER PLAN FILES. THIS DRAWING IS FURNISHED FOR CONTRACTOR REFERENCE PURPOSES. THE GOVERNMENT DOES NOT GUARANTEE AUTHENTICITY OR ACCURACY OF THIS 1983 DRAWINGS.

1" = 400' 0' 100' 200' 400' 800' 1200'

US Army Corps of Engineers
Norfolk District

DESIGNED FAZ	CHECKED BOT	DATE 22 DEC 04	
DRAWN NAP	SUBMITTED TLD	SCALE AS SHOWN	
PROJECT NO. 60772		DRAWING NO. FM 346-1.16	
DRAWING NO. 711-14-14		PROPONENT NO.	
Last revised on:		Plot scale: 1:1	
File name:			

Norfolk District
US Army Corps of Engineers
Norfolk, Virginia

22 DECEMBER 2004

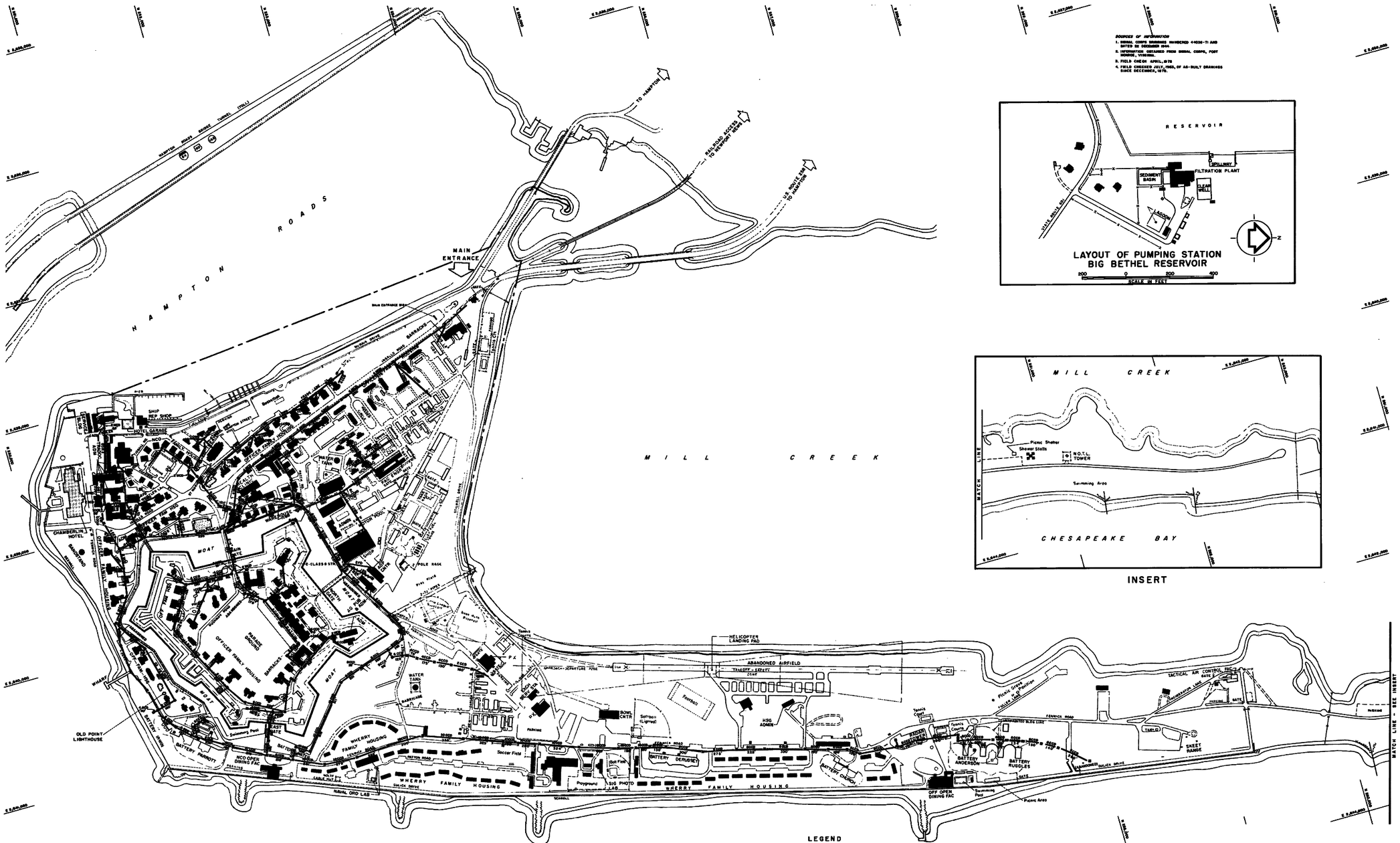
WHERRY FAMILY HOUSING REPLACEMENT
FORT MONROE
HAMPTON, VA

GENERAL TELEPHONE MAP CABLES (REFERENCE DRAWING)

RC-105
SHEET OF

SOURCES OF INFORMATION

1. SIGNAL CORPS DRAWINGS NUMBERED 4-6036-T1 AND DATED 22 DECEMBER 1944.
2. INFORMATION OBTAINED FROM SIGNAL CORPS, FORT MONROE, VIRGINIA.
3. FIELD CHECK APRIL, 1978
4. FIELD CHECKED JULY, 1985, OF AS-BUILT DRAWINGS SINCE DECEMBER, 1978.



INSERT

LEGEND

NO. OF DUCTS — TYPE OF MATL — SIZE	DUCT
DISTANCE BETWEEN BANKS OR CL TR (C)	
	MANHOLE
MCD	MULTIPLE CLAY DUCT
ACD	ASBESTOS CEMENT DUCT
CWD	CREOSOTED WOOD DUCT
CCD	FIBRE DUCT IN CONCRETE
FD	FIBRE DUCT
PVC	POLYVINYL CHLORIDE DUCT

NOTE REFERENCE DRAWING

THIS DRAWING PROVIDED FOR RFP RESPONDENT INFO ONLY. DATA AND INFO ARE FROM MASTER PLAN FILES. THIS DRAWING IS FURNISHED FOR CONTRACTOR REFERENCE PURPOSES. THE GOVERNMENT DOES NOT GUARANTEE AUTHENTICITY OR ACCURACY OF THIS 1983 DRAWINGS.

1" = 400' 0' 100.0' 200' 400' 800' 1200'

US Army Corps of Engineers
Norfolk District

NO.	REVISION	BY	DATE

DESIGNED: FAZ	CHECKED: BOT	DATE: 22 DEC 04	
DRAWN: NAP	SUBMITTED: TLD	SCALE: AS SHOWN	
PROJECT NO. 60772		DRAWING NO. FM 346—1:17	
DRAWING NO. 711—14—14		SHEET NO.	
Last revised on:		Plot scale: 1:1	
File name:			

Norfolk District
US Army Corps of Engineers
Norfolk, Virginia

22 DECEMBER 2004

WHERRY FAMILY HOUSING REPLACEMENT
FORT MONROE
HAMPTON, VA

GENERAL TELEPHONE MAP DUCTS (REFERENCE DRAWING)

RC-106
SHEET OF

KEYED NOTES (E-101 THRU E-104)

1. MAINTAIN CONTINUITY OF POWER, TELEPHONE & CABLE TV SERVICES TO NAVAL FACILITY, BLDGS 96 & 245(& NEW BLDG 245 ANNEX)TO REMAIN.
2. EXISTING PAD MOUNTED MEDIUM VOLTAGE SWITCHGEAR (13.2Y/7.62KV).
3. EXISTING STREET LIGHTS & ASSOCIATED UG CIRCUITRY ALONG FENWICK RD MAY REMAIN FOR CONTINUED USE.
4. EXISTING POLE MTD LIGHTS ALONG GULICK DRIVE SERVED FROM UNDERGROUND LIGHTING CIRCUITRY SHALL REMAIN FOR CONTINUED USE.

GENERAL NOTES (E-101 THRU E-104)

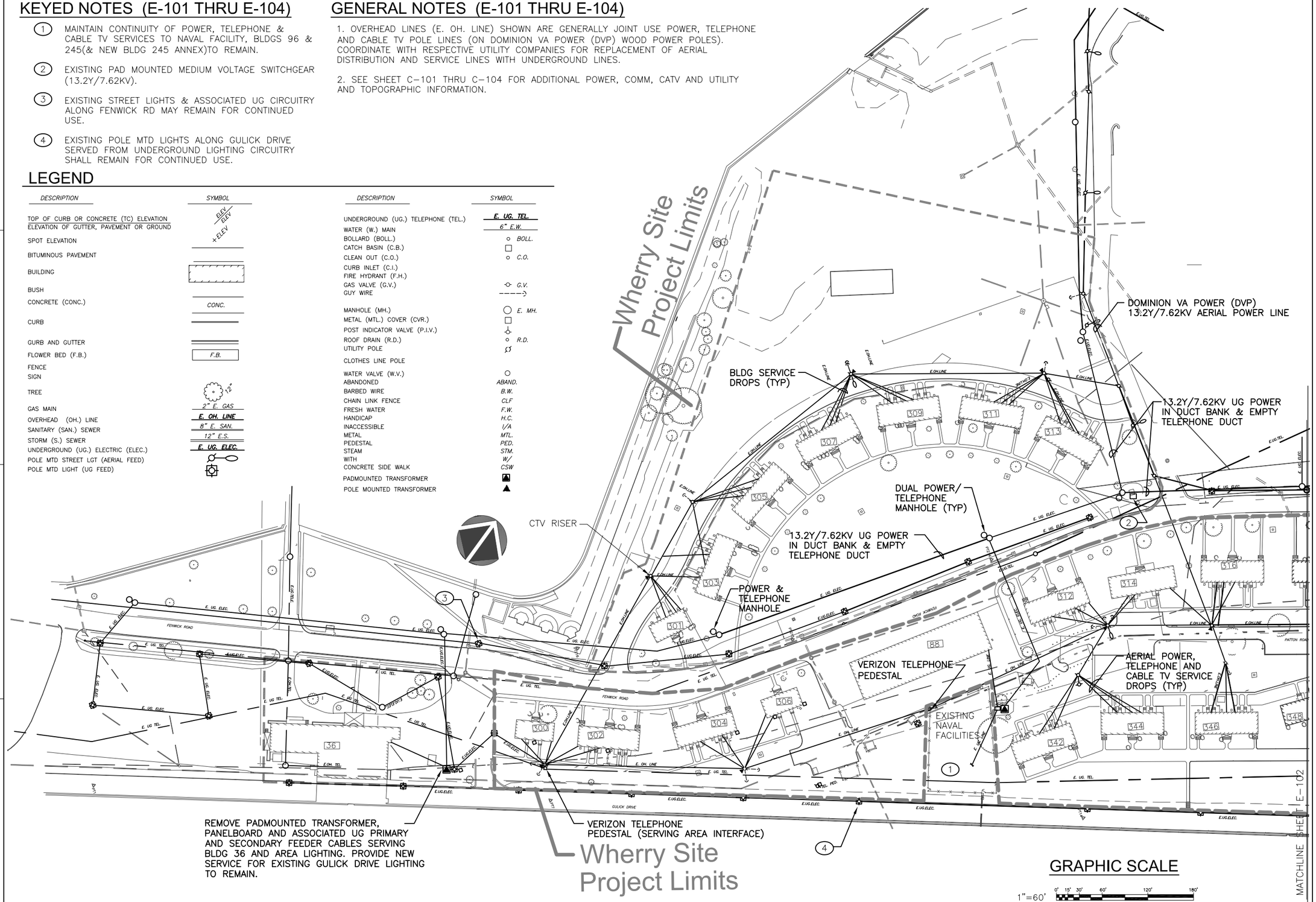
1. OVERHEAD LINES (E. OH. LINE) SHOWN ARE GENERALLY JOINT USE POWER, TELEPHONE AND CABLE TV POLE LINES (ON DOMINION VA POWER (DVP) WOOD POWER POLES). COORDINATE WITH RESPECTIVE UTILITY COMPANIES FOR REPLACEMENT OF AERIAL DISTRIBUTION AND SERVICE LINES WITH UNDERGROUND LINES.

2. SEE SHEET C-101 THRU C-104 FOR ADDITIONAL POWER, COMM, CATV AND UTILITY AND TOPOGRAPHIC INFORMATION.

LEGEND

DESCRIPTION	SYMBOL
TOP OF CURB OR CONCRETE (TC) ELEVATION	ELEV
ELEVATION OF GUTTER, PAVEMENT OR GROUND	ELEV
SPOT ELEVATION	+ELEV
BITUMINOUS PAVEMENT	
BUILDING	
BUSH	
CONCRETE (CONC.)	CONC.
CURB	
GURB AND GUTTER	
FLOWER BED (F.B.)	F.B.
FENCE	
SIGN	
TREE	12"
GAS MAIN	2" E. GAS
OVERHEAD (OH.) LINE	E. OH. LINE
SANITARY (SAN.) SEWER	8" E. SAN.
STORM (S.) SEWER	12" E.S.
UNDERGROUND (UG.) ELECTRIC (ELEC.)	E. UG. ELEC.
POLE MTD STREET LGT (AERIAL FEED)	
POLE MTD LIGHT (UG FEED)	

DESCRIPTION	SYMBOL
UNDERGROUND (UG.) TELEPHONE (TEL.)	E. UG. TEL.
WATER (W.) MAIN	6" E.W.
BOLLARD (BOLL.)	BOLL.
CATCH BASIN (C.B.)	
CLEAN OUT (C.O.)	C.O.
CURB INLET (C.I.)	
FIRE HYDRANT (F.H.)	
GAS VALVE (G.V.)	G.V.
GUY WIRE	
MANHOLE (MH.)	E. MH.
METAL (MTL.) COVER (CVR.)	
POST INDICATOR VALVE (P.I.V.)	
ROOF DRAIN (R.D.)	R.D.
UTILITY POLE	
CLOTHES LINE POLE	
WATER VALVE (W.V.)	
ABANDONED	ABAND.
BARBED WIRE	B.W.
CHAIN LINK FENCE	CLF
FRESH WATER	F.W.
HANDICAP	H.C.
INACCESSIBLE	I/A
METAL	MTL.
PEDESTAL	PED.
STEAM	STM.
WITH	W/
CONCRETE SIDE WALK	CSW
PADMOUNTED TRANSFORMER	
POLE MOUNTED TRANSFORMER	



GRAPHIC SCALE

1"=60' 0' 15' 30' 60' 120' 180'

US Army Corps of Engineers
Norfolk District

NO.	DATE	DESCRIPTION	BY	APP.

DESIGNED: RFU | CHECKED: MEH | DATE: 22 DEC 04
DRAWN: ECB | SUBMITTED: TLD | SCALE: AS SHOWN
PROJECT NO. 60772 | NAVFAC SPECIFICATION NO. FM-36-1.18
DRAWING NO. 711-14-14 | SPECIFICATION NO.
Last worked on: | Plot scale: 1:1
File name:

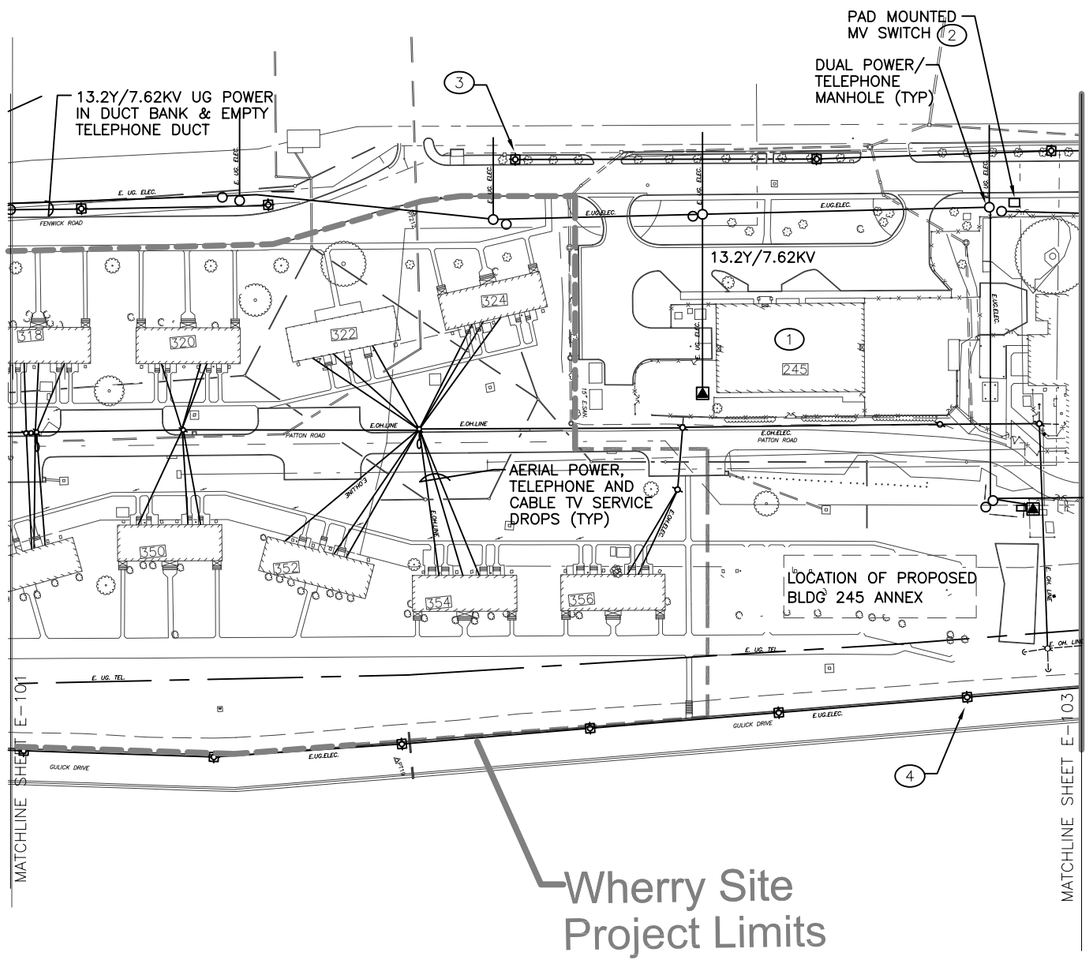
Norfolk District
US Army Corps of Engineers
Norfolk, Virginia

22 DECEMBER 2004

WHERRY FAMILY HOUSING REPLACEMENT
FORT MONROE
HAMPTON, VA

EXISTING ELECTRICAL SITE PLAN

E-101
SHEET OF



LEGEND

DESCRIPTION	SYMBOL
TOP OF CURB OR CONCRETE (TC) ELEVATION	ELEV
ELEVATION OF GUTTER, PAVEMENT OR GROUND	ELEV
SPOT ELEVATION	+ELEV
BITUMINOUS PAVEMENT	
BUILDING	
BUSH	
CONCRETE (CONC.)	CONC.
CURB	
GURB AND GUTTER	
FLOWER BED (F.B.)	F.B.
FENCE	
SIGN	
TREE	
GAS MAIN	2" E. GAS
OVERHEAD (OH.) LINE	E. OH. LINE
SANITARY (SAN.) SEWER	8" E. SAN.
STORM (S.) SEWER	12" E.S.
UNDERGROUND (UG.) ELECTRIC (ELEC.)	E. UG. ELEC.
POLE MTD STREET LGT (AERIAL FEED)	
POLE MTD LIGHT (UG FEED)	

DESCRIPTION	SYMBOL
UNDERGROUND (UG.) TELEPHONE (TEL.)	E. UG. TEL.
WATER (W.) MAIN	6" E.W.
BOLLARD (BOLL.)	BOLL.
CATCH BASIN (C.B.)	
CLEAN OUT (C.O.)	C.O.
CURB INLET (C.I.)	
FIRE HYDRANT (F.H.)	
GAS VALVE (G.V.)	G.V.
GUY WIRE	
MANHOLE (MH.)	E. MH.
METAL (MTL.) COVER (CVR.)	
POST INDICATOR VALVE (P.I.V.)	
ROOF DRAIN (R.D.)	R.D.
UTILITY POLE	
CLOTHES LINE POLE	
WATER VALVE (W.V.)	
ABANDONED	ABAND.
BARBED WIRE	B.W.
CHAIN LINK FENCE	CLF
FRESH WATER	F.W.
HANDICAP	H.C.
INACCESSIBLE	I/A
METAL	MTL.
PEDESTAL	PED.
STEAM	STM.
WITH	W/
CONCRETE SIDE WALK	CSW
PADMOUNTED TRANSFORMER	
POLE MOUNTED TRANSFORMER	

GRAPHIC SCALE

1" 0' 15' 30' 60' 120' 180'

US Army Corps of Engineers
Norfolk District

NO.	DATE	DESCRIPTION	BY	APP.

DESIGNED: RFU
DRAWN: ECB
CHECKED: MEH
SUBMITTED: TLD
DATE: 22 DEC 04
SCALE: AS SHOWN
PROJECT NO. 60772
DRAWING NO. 711-14-14
Last worked on:
File name:
WORK UNIT PROJECT FILE NO. FM-36-1,19
SPECIFICATION NO.
Plot scale: 1:1

Norfolk District
US Army Corps of Engineers
Norfolk, Virginia

22 DECEMBER 2004

WHERRY FAMILY HOUSING REPLACEMENT
FORT MONROE
HAMPTON, VA

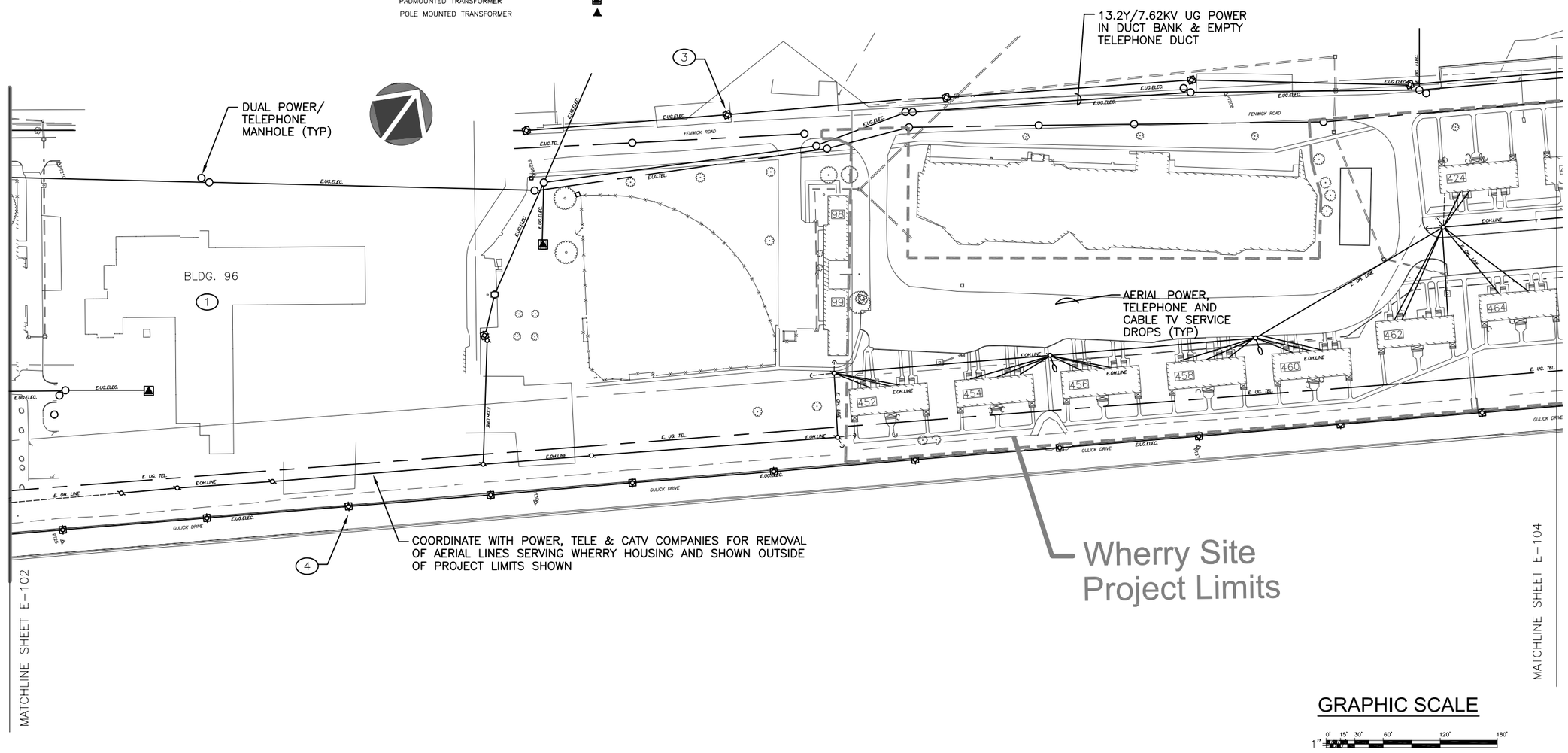
EXISTING ELECTRICAL SITE PLAN

E-102
SHEET OF

LEGEND

DESCRIPTION	SYMBOL
TOP OF CURB OR CONCRETE (TC) ELEVATION	ELEV
ELEVATION OF GUTTER, PAVEMENT OR GROUND	ELEV
SPOT ELEVATION	+ELEV
BITUMINOUS PAVEMENT	
BUILDING	
BUSH	
CONCRETE (CONC.)	CONC.
CURB	
GURB AND GUTTER	
FLOWER BED (F.B.)	F.B.
FENCE	
SIGN	
TREE	12"
GAS MAIN	2" E. GAS
OVERHEAD (OH.) LINE	E. OH. LINE
SANITARY (SAN.) SEWER	8" E. SAN.
STORM (S.) SEWER	12" E.S.
UNDERGROUND (UG.) ELECTRIC (ELEC.)	E. UG. ELEC.
POLE MTD STREET LGT (AERIAL FEED)	
POLE MTD LIGHT (UG FEED)	

DESCRIPTION	SYMBOL
UNDERGROUND (UG.) TELEPHONE (TEL.)	E. UG. TEL.
WATER (W.) MAIN	6" E.W.
BOLLARD (BOLL.)	BOLL.
CATCH BASIN (C.B.)	
CLEAN OUT (C.O.)	C.O.
CURB INLET (C.I.)	
FIRE HYDRANT (F.H.)	
GAS VALVE (G.V.)	G.V.
GUY WIRE	
MANHOLE (MH.)	E. MH.
METAL (MTL.) COVER (CVR.)	
POST INDICATOR VALVE (P.I.V.)	
ROOF DRAIN (R.D.)	R.D.
UTILITY POLE	
CLOTHES LINE POLE	
WATER VALVE (W.V.)	
ABANDONED	ABAND.
BARBED WIRE	B.W.
CHAIN LINK FENCE	CLF
FRESH WATER	F.W.
HANDICAP	H.C.
INACCESSIBLE	I/A
METAL	MTL.
PEDESTAL	PED.
STEAM	STM.
WITH	W/
CONCRETE SIDE WALK	CSW
PADMOUNTED TRANSFORMER	
POLE MOUNTED TRANSFORMER	



GRAPHIC SCALE

1" 0' 15' 30' 60' 120' 180'

US Army Corps of Engineers
Norfolk District

REV.	DATE	DESCRIPTION	BY	APP.

DESIGNED: RFU
DRAWN: ECB
CHECKED: MEH
SUBMITTED: TLD
PROJECT NO. 60772
DATE: 22 DEC 04
SCALE: AS SHOWN
NORFOLK DISTRICT FILE NO. FM-346.1.20
SPECIFICATION NO.
DRAWING NO. 711-14-14
Last worked on:
File name:
Plot scale: 1:1

Norfolk District
US Army Corps of Engineers
Norfolk, Virginia

22 DECEMBER 2004

WHERRY FAMILY HOUSING REPLACEMENT
FORT MONROE
HAMPTON, VA

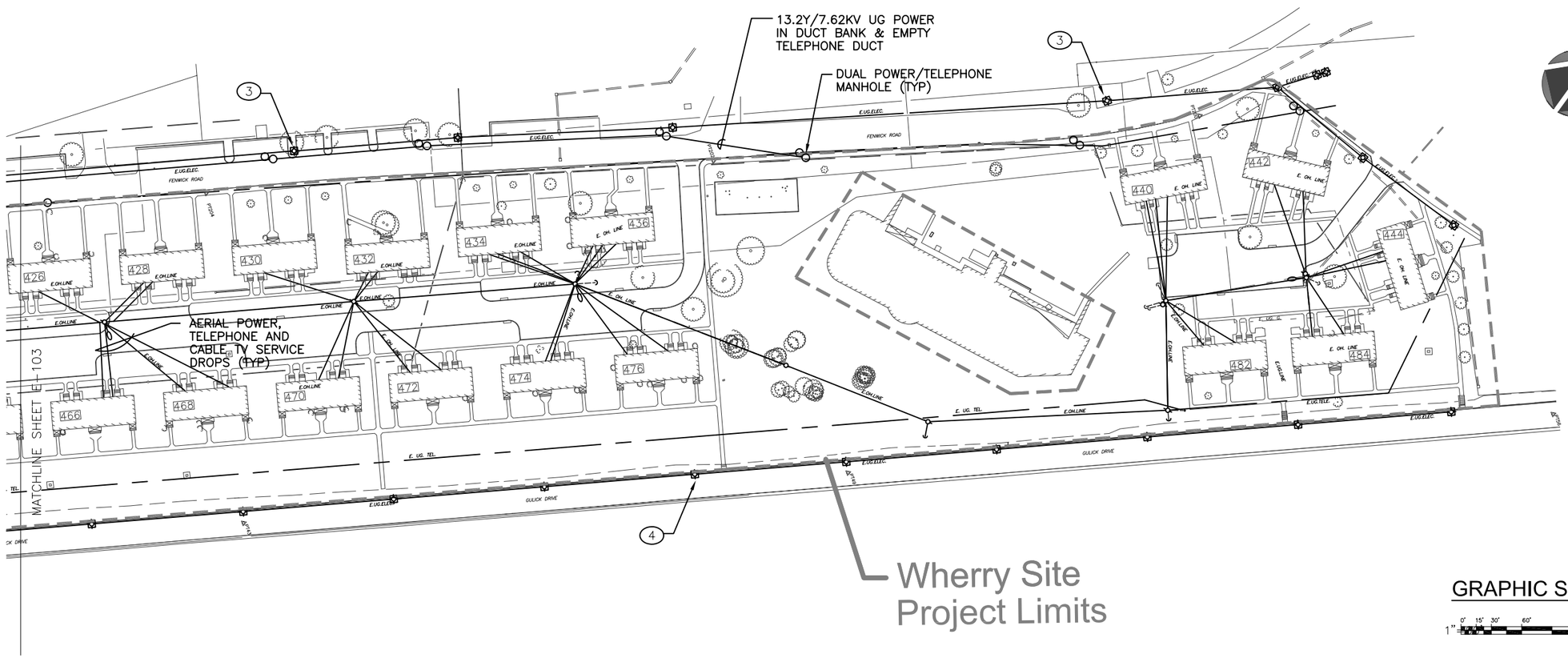
EXISTING ELECTRICAL SITE PLAN

E-103
SHEET OF

LEGEND

DESCRIPTION	SYMBOL
TOP OF CURB OR CONCRETE (TC) ELEVATION	ELEV
ELEVATION OF GUTTER, PAVEMENT OR GROUND	ELEV
SPOT ELEVATION	+ELEV
BITUMINOUS PAVEMENT	
BUILDING	
BUSH	
CONCRETE (CONC.)	CONC.
CURB	
GURB AND GUTTER	
FLOWER BED (F.B.)	F.B.
FENCE	
SIGN	
TREE	12"
GAS MAIN	2" E. GAS
OVERHEAD (OH.) LINE	E. OH. LINE
SANITARY (SAN.) SEWER	8" E. SAN.
STORM (S.) SEWER	12" E.S.
UNDERGROUND (UG.) ELECTRIC (ELEC.)	E. UG. ELEC.
POLE MTD STREET LGT (AERIAL FEED)	
POLE MTD LIGHT (UG FEED)	

DESCRIPTION	SYMBOL
UNDERGROUND (UG.) TELEPHONE (TEL.)	E. UG. TEL.
WATER (W.) MAIN	6" E.W.
BOLLARD (BOLL.)	BOLL.
CATCH BASIN (C.B.)	
CLEAN OUT (C.O.)	C.O.
CURB INLET (C.I.)	
FIRE HYDRANT (F.H.)	
GAS VALVE (G.V.)	G.V.
GUY WIRE	
MANHOLE (MH.)	E. MH.
METAL (MTL.) COVER (CVR.)	
POST INDICATOR VALVE (P.I.V.)	
ROOF DRAIN (R.D.)	R.D.
UTILITY POLE	
CLOTHES LINE POLE	
WATER VALVE (W.V.)	
ABANDONED	ABAND.
BARBED WIRE	B.W.
CHAIN LINK FENCE	CLF
FRESH WATER	F.W.
HANDICAP	H.C.
INACCESSIBLE	I/A
METAL	MTL.
PEDESTAL	PED.
STEAM	STM.
WITH	W/
CONCRETE SIDE WALK	CSW
PADMOUNTED TRANSFORMER	
POLE MOUNTED TRANSFORMER	



GRAPHIC SCALE

1" 0' 15' 30' 60' 120' 180'

US Army Corps of Engineers
Norfolk District

REV.	DATE	DESCRIPTION	BY	APP.

DATE: 22 DEC 04
SCALE: AS SHOWN
DESIGNED: RFU
CHECKED: MEH
DRAWN: ECB
SUBMITTED: TLD
PROJECT NO. 70772
WORKUNIT SUBPROJECT FILE NO. FM-346-1.21
DRAWING NO. 711-14-14
SPECIFICATION NO.
Last worked on:
Plot scale: 1:1
File name:

Norfolk District
US Army Corps of Engineers
Norfolk, Virginia

22 DECEMBER 2004

WHERRY FAMILY HOUSING REPLACEMENT
FORT MONROE
HAMPTON, VA

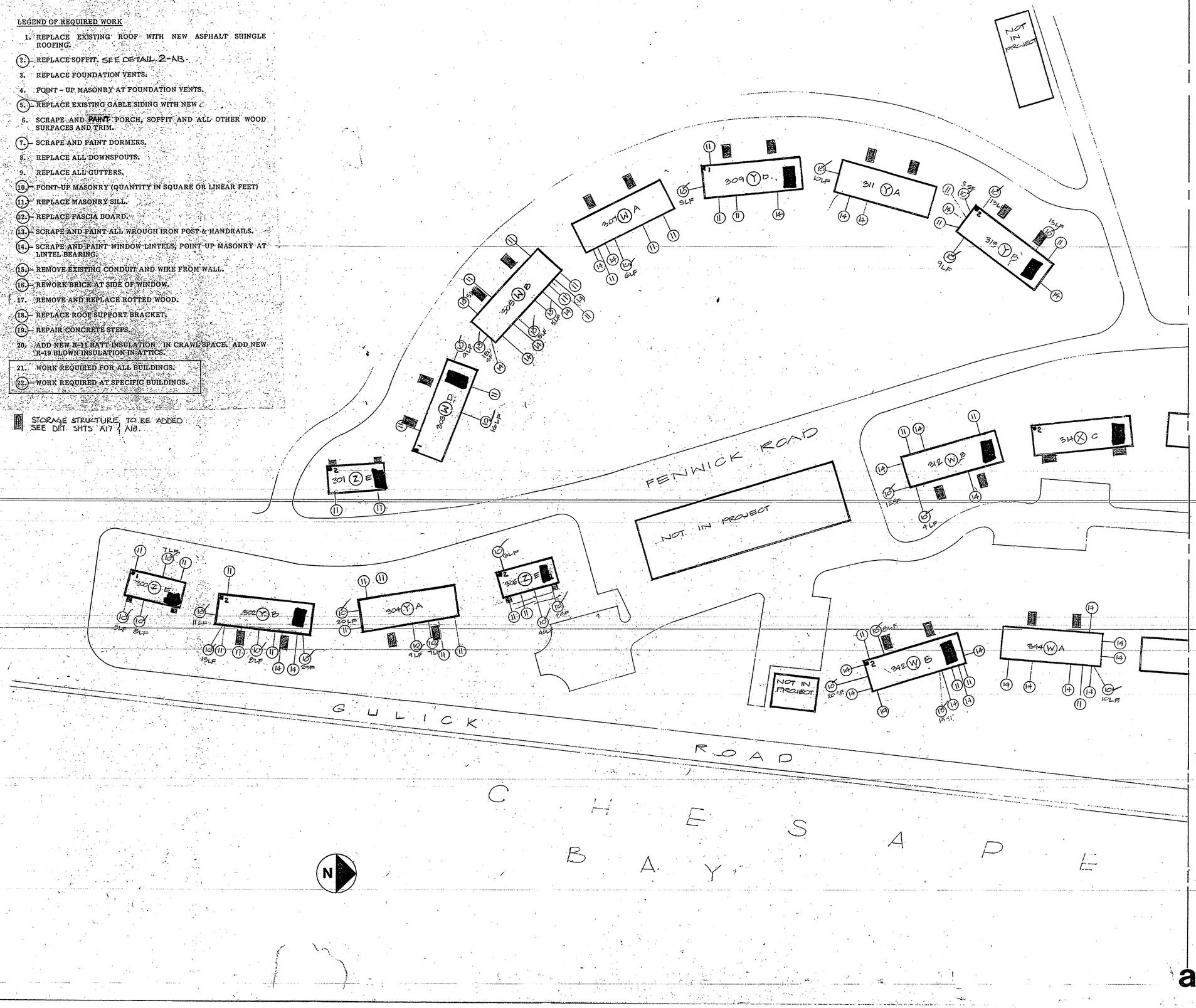
EXISTING ELECTRICAL SITE PLAN

E-104
SHEET OF

LEGEND OF REQUIRED WORK

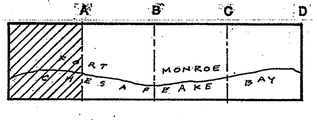
1. REPLACE EXISTING ROOF WITH NEW ASPHALT SHINGLE ROOFING.
2. REPLACE SOFFIT. SEE DETAIL 2-A13.
3. REPLACE FOUNDATION VENTS.
4. POINT - UP MASONRY AT FOUNDATION VENTS.
5. REPLACE EXISTING GABLE SIDING WITH NEW.
6. SCRAPE AND PAINT PORCH, SOFFIT AND ALL OTHER WOOD SURFACES AND TRIM.
7. SCRAPE AND PAINT DORMERS.
8. REPLACE ALL DOWNSPOUTS.
9. REPLACE ALL GUTTERS.
10. POINT-UP MASONRY (QUANTITY IN SQUARE OR LINEAR FEET)
11. REPLACE MASONRY SILL.
12. REPLACE FASCIA BOARD.
13. SCRAPE AND PAINT ALL WROUGH IRON POST & HANDRAILS.
14. SCRAPE AND PAINT WINDOW LINTELS, POINT UP MASONRY AT LINTEL BEARING.
15. REMOVE EXISTING CONDUIT AND WIRE FROM WALL.
16. REWORK BRICK AT SIDE OF WINDOW.
17. REMOVE AND REPLACE ROTTED WOOD.
18. REPLACE ROOF SUPPORT BRACKET.
19. REPAIR CONCRETE STEPS.
20. ADD NEW R-11 BATT INSULATION IN CRAWL SPACE. ADD NEW R-19 BLOWN INSULATION IN ATTICS.
21. WORK REQUIRED FOR ALL BUILDINGS.
22. WORK REQUIRED AT SPECIFIC BUILDINGS.

STORAGE STRUCTURE TO BE ADDED SEE DET. SHTS A17 & A18.



Bldg Number
Plan Layout Type
Elevation Style
13 W A

Key to Buildings



Key to Site Plan

Plan this Sheet

revisions			
mark	date	by	description
-	12/23/85	THRM	STORAGE UNITS

date 9/3/85
project
designed
drawn
checked

Morrisette Cederquist Bondurant
architecture
engineering
interiors
planning

COMMONWEALTH OF VIRGINIA
THOMAS B. MORRISETTE
CERTIFICATE NO. 1712

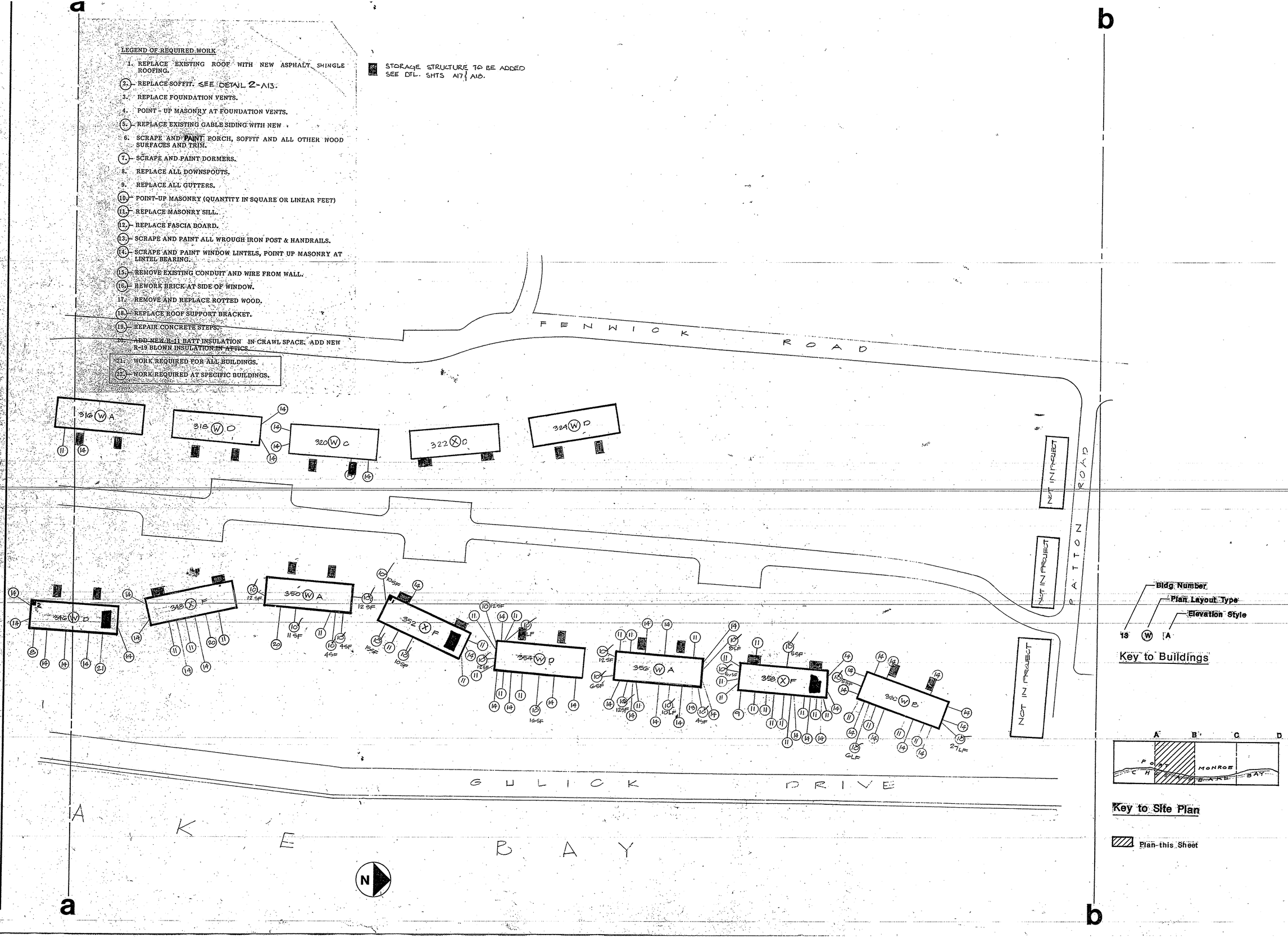
project FORT MONROE HOUSING PROJECT
drawing Site Plan

sheet A-1
of 4

LEGEND OF REQUIRED WORK

1. REPLACE EXISTING ROOF WITH NEW ASPHALT SHINGLE ROOFING.
2. REPLACE SOFFIT. SEE DETAIL 2-A13.
3. REPLACE FOUNDATION VENTS.
4. POINT - UP MASONRY AT FOUNDATION VENTS.
5. REPLACE EXISTING GABLE SIDING WITH NEW
6. SCRAPE AND PAINT PORCH, SOFFIT AND ALL OTHER WOOD SURFACES AND TRIM.
7. SCRAPE AND PAINT DORMERS.
8. REPLACE ALL DOWNSPOUTS.
9. REPLACE ALL GUTTERS.
10. POINT-UP MASONRY (QUANTITY IN SQUARE OR LINEAR FEET)
11. REPLACE MASONRY SILL.
12. REPLACE FASCIA BOARD.
13. SCRAPE AND PAINT ALL WROUGH IRON POST & HANDRAILS.
14. SCRAPE AND PAINT WINDOW LINTELS, POINT UP MASONRY AT LINTEL BEARING.
15. REMOVE EXISTING CONDUIT AND WIRE FROM WALL.
16. REWORK BRICK AT SIDE OF WINDOW.
17. REMOVE AND REPLACE ROTTED WOOD.
18. REPLACE ROOF SUPPORT BRACKET.
19. REPAIR CONCRETE STEPS.
20. ADD NEW R-11 BATT INSULATION IN CRAWL SPACE. ADD NEW R-19 BLOWN INSULATION IN ATTICS
21. WORK REQUIRED FOR ALL BUILDINGS.
22. WORK REQUIRED AT SPECIFIC BUILDINGS.

STORAGE STRUCTURE TO BE ADDED SEE DTL. SHTS A17 & A18.



Bldg. Number
Plan Layout Type
Elevation Style
13 W A

Key to Buildings

Key to Site Plan

Plan-this Sheet

revisions			
mark	date	by	description
–	12/23/85	THBM	STORAGE UNITS

date 9/3/85
project 85027
designed
drawn
checked

Morrisette Cederquist Bondurant
architecture
engineering
interiors
planning

COMMONWEALTH OF VIRGINIA
THOMAS H. B. MORRISETTE
CERTIFICATE NO. 1712

project FORT MONROE HOUSING PROJECT
drawing Site Plan

sheet A-2 X
of 32

LEGEND OF REQUIRED WORK

1. REPLACE EXISTING ROOF WITH NEW ASPHALT SHINGLE ROOFING.
2. REPLACE SOFFIT. SEE DETAIL 2-A13.
3. REPLACE FOUNDATION VENTS.
4. POINT - UP MASONRY AT FOUNDATION VENTS.
5. REPLACE EXISTING GABLE SIDING WITH NEW
6. SCRAPE AND PAINT PORCH, SOFFIT AND ALL OTHER WOOD SURFACES AND TRIM.
7. SCRAPE AND PAINT DORMERS.
8. REPLACE ALL DOWNSPOUTS.
9. REPLACE ALL GUTTERS.
10. POINT-UP MASONRY (QUANTITY IN SQUARE OR LINEAR FEET)
11. REPLACE MASONRY SILL.
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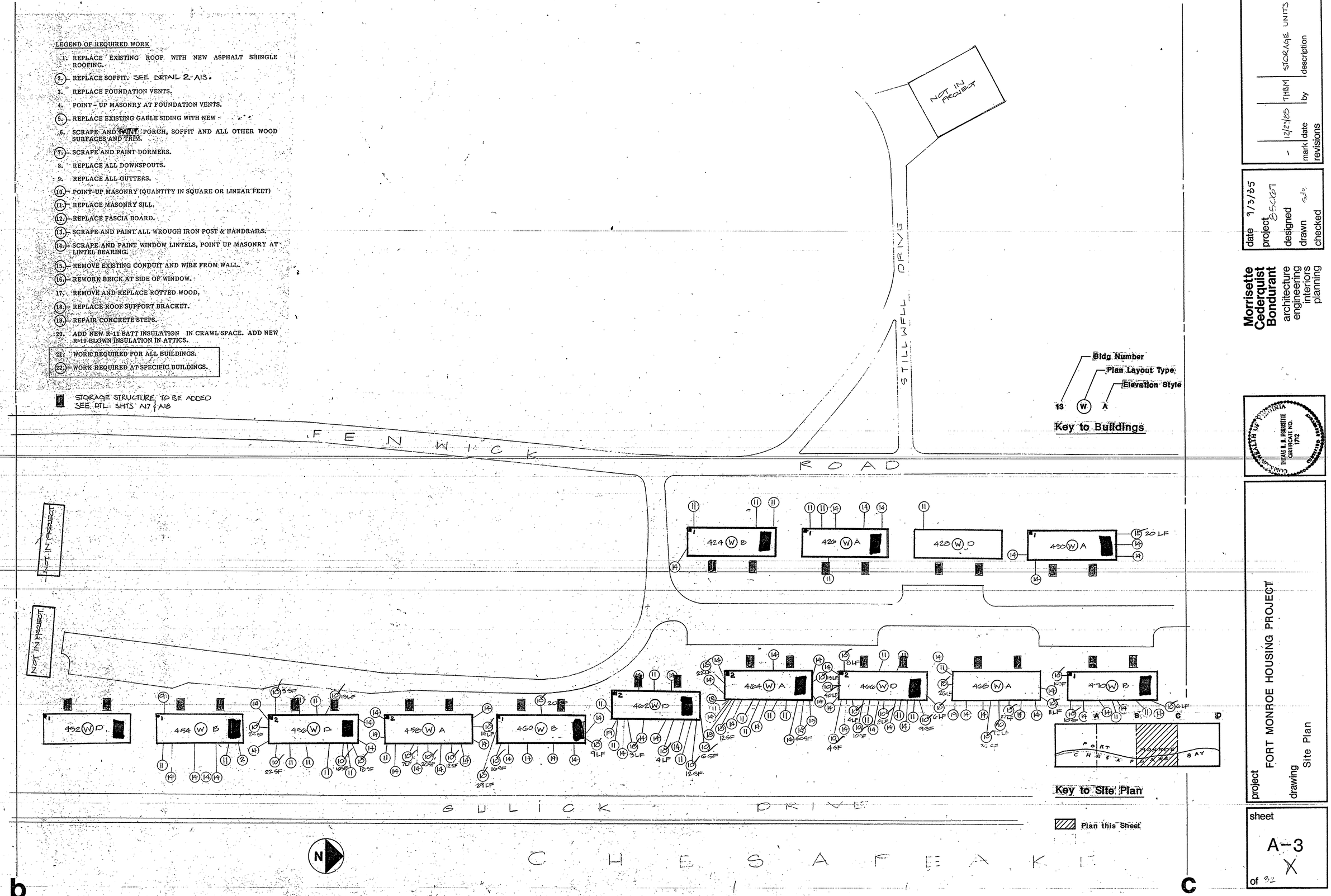
13. SCRAPE AND PAINT ALL WROUGH IRON POST & HANDRAILS.
14. SCRAPE AND PAINT WINDOW LINTELS, POINT UP MASONRY AT LINTEL BEARING.
15. REMOVE EXISTING CONDUIT AND WIRE FROM WALL.
16. REWORK BRICK AT SIDE OF WINDOW.
17. REMOVE AND REPLACE ROTTED WOOD.
18. REPLACE ROOF SUPPORT BRACKET.
19. REPAIR CONCRETE STEPS.
20. ADD NEW R-11 BATT INSULATION IN CRAWL SPACE. ADD NEW R-19 BLOWN INSULATION IN ATTICS.
21. WORK REQUIRED FOR ALL BUILDINGS.
22. WORK REQUIRED AT SPECIFIC BUILDINGS.

STORAGE STRUCTURE TO BE ADDED SEE DTL. SHTS A17 & A18



mark	date	by	description
-	12/2/85	THBM	STORAGE UNITS

revisions

date 9/3/85
project 85-207
designed
drawn
checked

Morrisette Cederquist Bondurant
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interiors
planning

COMMONWEALTH OF VIRGINIA
THOMAS H. B. MORRISETTE
CERTIFICATE NO. 1712

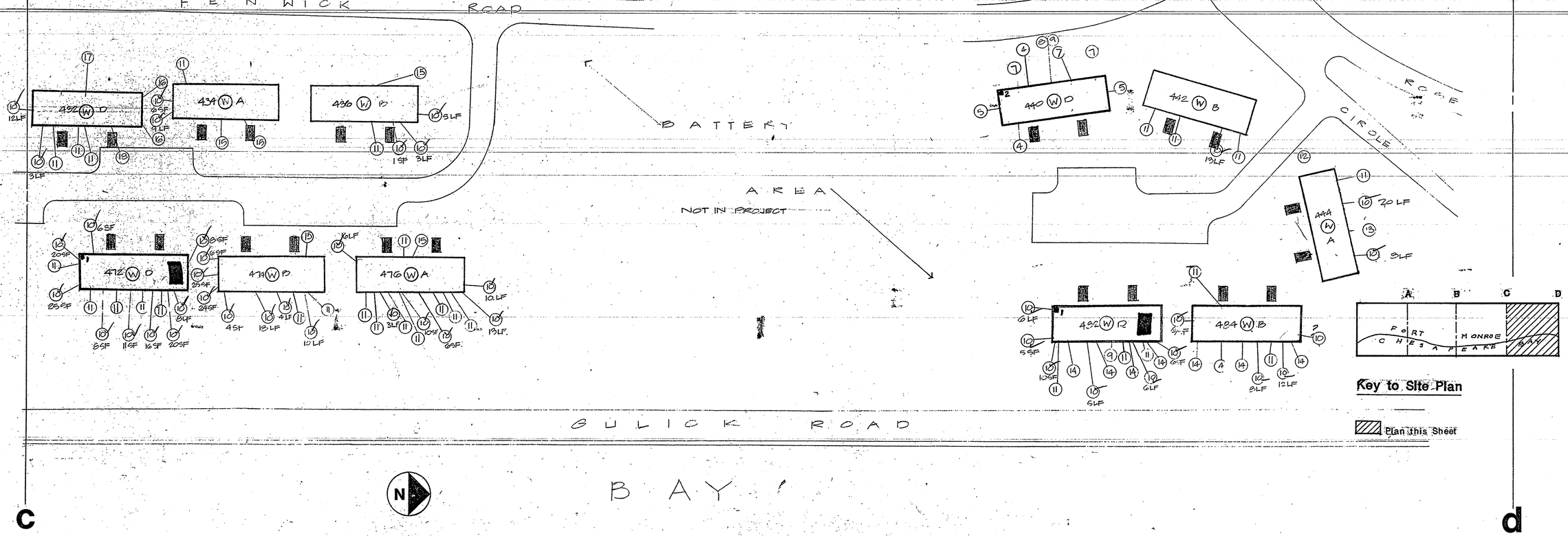
project FORT MONROE HOUSING PROJECT
drawing Site Plan

sheet A-3 X of 32

LEGEND OF REQUIRED WORK

1. REPLACE EXISTING ROOF WITH NEW ASPHALT SHINGLE ROOFING.
2. REPLACE SOFFIT. SEE DETAIL 2-A13.
3. REPLACE FOUNDATION VENTS.
4. POINT - UP MASONRY AT FOUNDATION VENTS.
5. REPLACE EXISTING GABLE SIDING WITH NEW
6. SCRAPE AND PAINT PORCH, SOFFIT AND ALL OTHER WOOD SURFACES AND TRIM.
7. SCRAPE AND PAINT DORMERS.
8. REPLACE ALL DOWNSPOUTS.
9. REPLACE ALL GUTTERS.
10. POINT-UP MASONRY (QUANTITY IN SQUARE OR LINEAR FEET)
11. REPLACE MASONRY SILL.
12. REPLACE FASCIA BOARD.
13. SCRAPE AND PAINT ALL WROUGH IRON POST & HANDRAILS.
14. SCRAPE AND PAINT WINDOW LINTELS, POINT UP MASONRY AT LINTEL BEARING.
15. REMOVE EXISTING CONDUIT AND WIRE FROM WALL.
16. REWORK BRICK AT SIDE OF WINDOW.
17. REMOVE AND REPLACE ROTTED WOOD.
18. REPLACE ROOF SUPPORT BRACKET.
19. REPAIR CONCRETE STEPS.
20. ADD NEW R-11 BATT INSULATION IN CRAWL SPACE. ADD NEW R-19 BLOWN INSULATION IN ATTICS.
21. WORK REQUIRED FOR ALL BUILDINGS.
22. WORK REQUIRED AT SPECIFIC BUILDINGS.

STORAGE STRUCTURE TO BE ADDED - SEE DET. SHTS. A17 - A18



Bldg Number
Plan Layout Type
Elevation Style
13 W A

Key to Buildings

Key to Site Plan

Plan this Sheet

mark	date	by	description
-	12/23/85	THSM	STORAGE UNITS

revisions

date 9/3/85
project 85027
designed
drawn
checked

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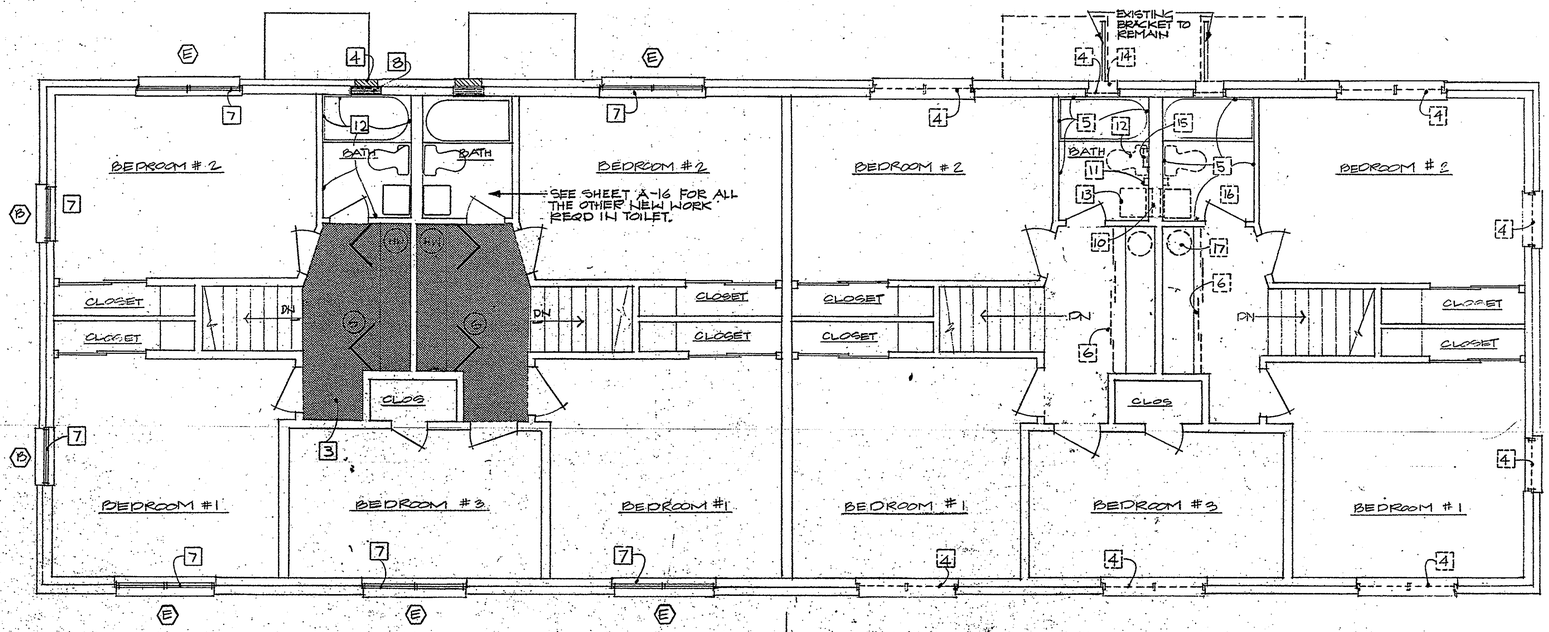
engineering
interiors
planning

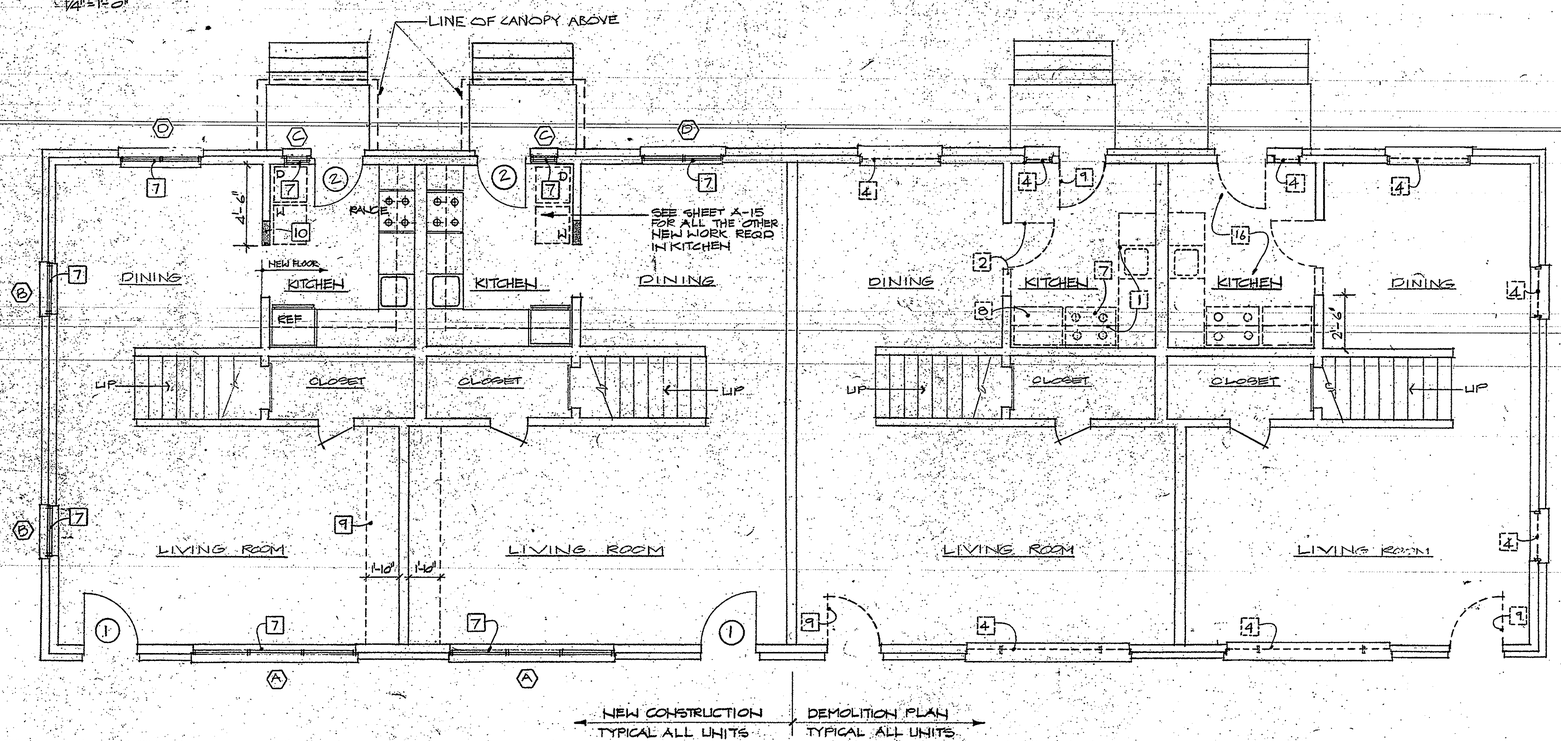
COMMONWEALTH OF VIRGINIA
THOMAS B. MORRISETTE
CERTIFICATE NO. 1712
REGISTERED ARCHITECT

project FORT MONROE HOUSING PROJECT
drawing Site Plan

sheet A-4
of 32 X



SECOND FLOOR PLAN - TYPE "W"
1/4"=1'-0"



FIRST FLOOR PLAN - TYPE "W"
SCALE: 1/4"=1'-0"

LEGEND

- EXISTING TO REMAIN
- TO BE REMOVED
- NEW PARTITION
- NEW BRICK
- DROP CEILING 7'-0" A.F.F.
- NEW DOORS
- EXISTING DOOR TO REMAIN
- DOOR TO BE REMOVED

DEMOLITION NOTES

1. REMOVE EXISTING KITCHEN CABINETS, AND REPAIR DAMAGES DONE TO ADJACENT WALLS
2. REMOVE EXISTING DOOR, DOOR FRAME, AND PORTIONS OF ADJACENT WALL
3. REMOVE EXISTING CANOPY, AND FLASHING
4. REMOVE EXISTING WINDOWS, WINDOW FRAMES AND ANCHORS. REPAIR ANY DAMAGE DONE TO MASONRY OPENING.
5. REMOVE EXISTING CERAMIC TILE, TILE BASE, WIRE MESH AND PLASTER ON THE WALLS.
6. REMOVE EXISTING SLIDING DOORS AND DOOR TRACKS.
7. REMOVE EXISTING RANGE.
8. REMOVE EXISTING REFRIGERATOR.
9. CAREFULLY REMOVE EXISTING DOOR. (CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY DOOR FRAME DAMAGED DURING DEMOLITION.
10. REMOVE MEDICINE CABINET.
11. REMOVE TOILET PAPER HOLDER.
12. REMOVE EXISTING WATER CLOSET
13. REMOVE EXISTING LAVATORY.
14. REMOVE EXISTING WINDOW BRICK SILL.
15. REMOVE TOWEL RACK.
16. REMOVE EXISTING FLOOR FINISH.
17. REMOVE WATER HEATER.
18. REMOVE EXISTING ASPHALT SHINGLE ROOF AND FELT UNDERLAYMENT.

NEW CONSTRUCTION

1. 2 X 4 STUDS AT 16" O.C. WITH 1/2" PLYWOOD SHEATHING, 15# FELT AND SIDING.
2. NEW 4" CONCRETE SLAB ON COMPACTED FILL. SEE SECTION C/A-17.
3. NEW 1/2" GYPSUM BOARD DROP CEILING. 7'-0" A.F.F. SEE H.V.A.C. PLANS FOR OTHER REQUIREMENTS.
4. NEW BRICK VENEER IN EXISTING WINDOW OPENING. COLOR AND COURSING TO MATCH ADJACENT BRICKS.
5. 2-2 X 4 STUDS WRAPPED WITH 1/2" GYPSUM BD.
6. 2 X 4 STUD WALL WITH 1/2" PLYWOOD SHEATHING ON THE EXTERIOR AND 1/2" GYPSUM BD. ON THE INTERIOR. FINISH GYPSUM BD TO MATCH ADJACENT WALL.
7. NEW ALUMINUM REPLACEMENT WINDOW.
8. REINFORCED CONCRETE SLAB. SEE SECTION C/A-18.
9. 12" DEEP WOOD FRAME SOFFIT WITH 1/2" GYPSUM BD SURFACE.
10. 2 X 4 STUD WALL WITH 1/2" GYPSUM BOARD BOTH SIDES.
11. NOT USED
12. INSTALL NEW 1/2" WATER RESISTANT GYPSUM BOARD ON THE WALLS. PROVIDE TWO LAYERS OF 1/2" GYPSUM BOARD AROUND THE EDGE OF THE BATH TUB.
13. NEW ASPHALT SHINGLES ON 15# FELT.
14. NOT USED
15. NEW SHEET VINYL FLOOR.
16. NEW METAL GUTTER.

mark	date	by	description
1	12/23/85	THBM	GENERAL/MLB
1	11/5/85	A.L.	GEN/CORP OF ENG

revisions

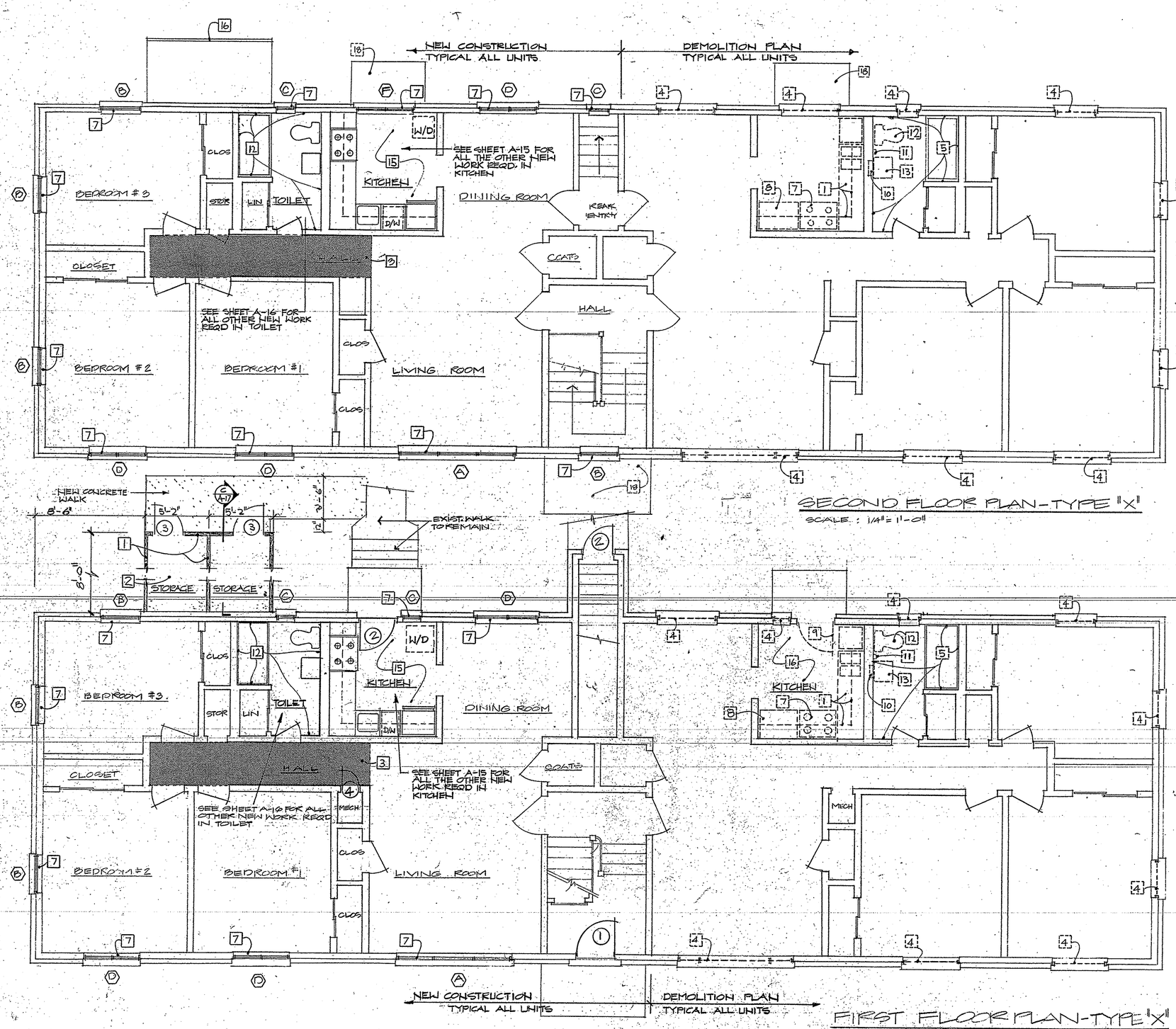
date 9/3/85
project 85067
designed SG3
drawn SG3 A.L.
checked

Morrisette Cederquist Bondurant
architecture engineering interiors planning

COMMONWEALTH OF VIRGINIA
THOMAS B. B. MORRISETTE
CERTIFICATE NO. 1712

project FORT MONROE HOUSING PROJECT
drawing Floor Plan - Type "W"

sheet A-5 X
of 32



SECOND FLOOR PLAN-TYPE "X"

SCALE : 1/4" = 1'-0"

FIRST FLOOR PLAN-TYPE "X"

SCALE : 1/4" = 1'-0"

LEGEND

- EXISTING TO REMAIN
- TO BE REMOVED
- NEW PARTITION
- NEW BRICK
- DROP CEILING 7'-0" A.F.F.
- NEW DOORS
- EXISTING DOOR TO REMAIN
- DOOR TO BE REMOVED

DEMOLITION NOTES

1. REMOVE EXISTING KITCHEN CABINETS, AND REPAIR DAMAGES DONE TO ADJACENT WALLS
2. REMOVE EXISTING DOOR, DOOR FRAME, AND PORTIONS OF AN ADJACENT WALL
3. REMOVE EXISTING CANOPY, AND FLASHING
4. REMOVE EXISTING WINDOWS, WINDOW FRAMES AND ANCHORS. REPAIR ANY DAMAGE DONE TO MASONRY OPENING.
5. REMOVE EXISTING CERAMIC TILE, TILE BASE, WIRE MESH AND PLASTER ON THE WALLS.
6. REMOVE EXISTING SLIDING DOORS AND DOOR TRACKS.
7. REMOVE EXISTING RANGE.
8. REMOVE EXISTING REFRIGERATOR.
9. CAREFULLY REMOVE EXISTING DOOR. (CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY DOOR FRAME DAMAGED DURING DEMOLITION.
10. REMOVE MEDICINE CABINET.
11. REMOVE TOILET PAPER HOLDER.
12. REMOVE EXISTING WATER CLOSET
13. REMOVE EXISTING LAVATORY.
14. REMOVE EXISTING WINDOW BRICK SILL.
15. REMOVE TOWEL RACK.
16. REMOVE EXISTING FLOOR FINISH.
17. REMOVE WATER HEATER.
18. REMOVE EXISTING ASPHALT SHINGLE ROOF AND FELT UNDERLAYMENT.

NEW CONSTRUCTION

1. 2 x 4 STUDS AT 16" O.C. WITH 1/2" PLYWOOD SHEATHING, 15# FELT AND SIDING.
2. NEW 4" CONCRETE SLAB ON COMPACTED FILL. SEE SECTION C/A-17.
3. NEW 1/2" GYPSUM BOARD DROP CEILING. 7'-0" A.F.F. SEE H.V.A.C. PLANS FOR OTHER REQUIREMENTS.
4. NEW BRICK VENEER IN EXISTING WINDOW OPENING. COLOR AND COURSING TO MATCH ADJACENT BRICKS.
5. 2-2 X 4 STUDS WRAPPED WITH 1/2" GYPSUM BD.
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13. NEW ASPHALT SHINGLES ON 15# FELT.
14. NOT USED
15. NEW SHEET VINYL FLOOR.
16. NEW METAL GUTTER.

mark	date	by	description
-	2/20/80	THBM	GENERAL/MLB
-	12/23/85	THBM	GENERAL/MLB
-	11/5/85	A.L.	GEN./COPY OF EN4

revisions

date	9/3/85
project	85067
designed	SG3
drawn	SG3
checked	

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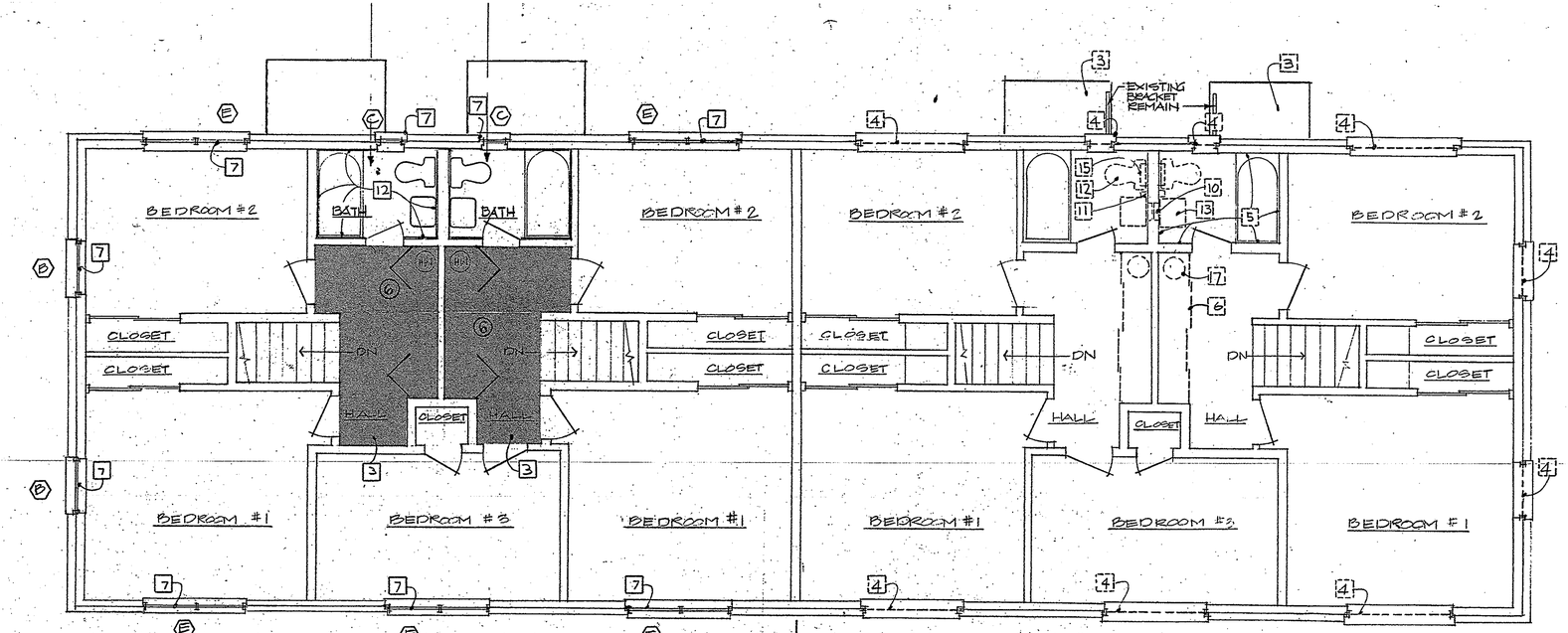
project FORT MONROE HOUSING PROJECT

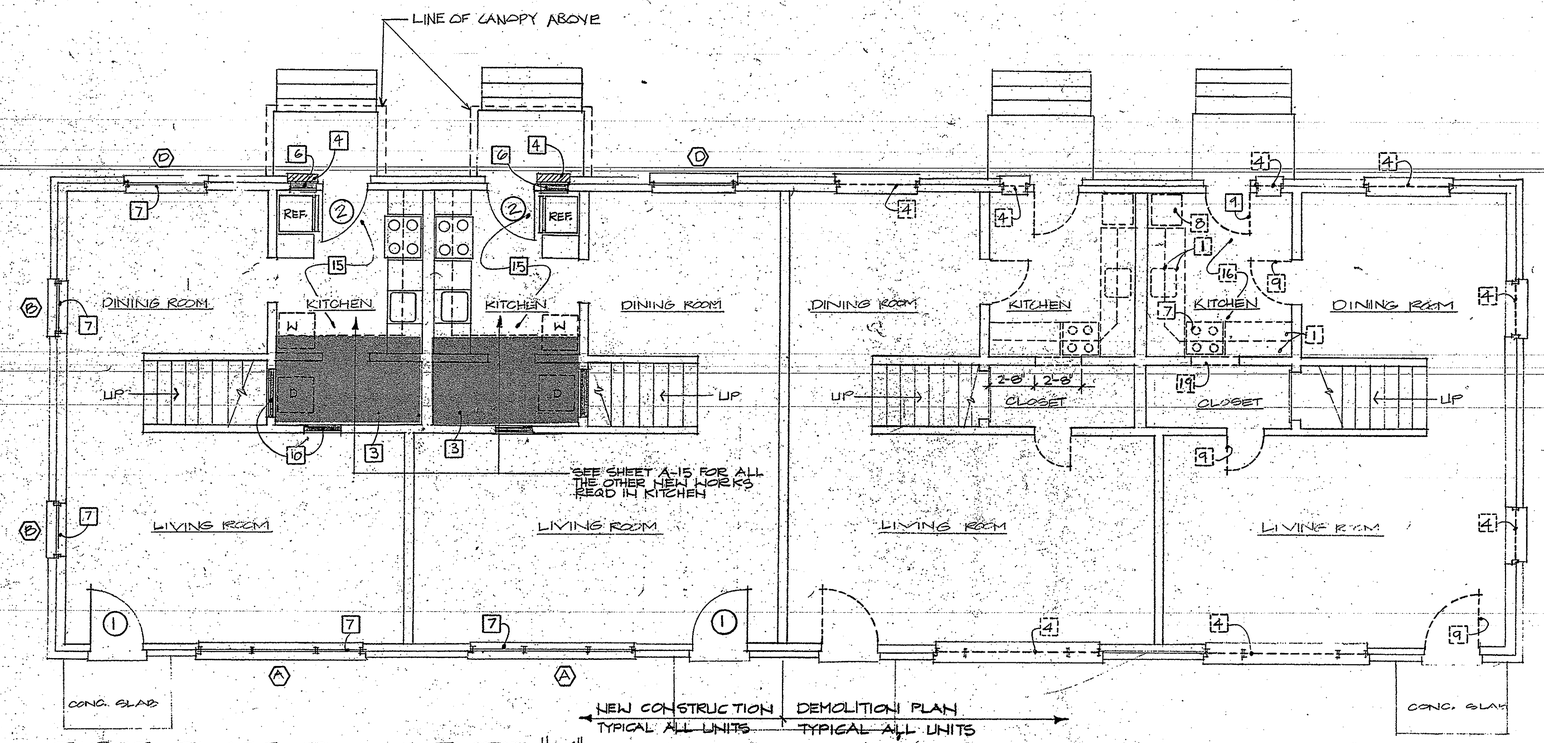
drawing Floor Plan – Type "X"

sheet A-6 X of 32



SECOND FLOOR PLAN TYPE "Y"
SCALE: 1/4"=1'-0"

NEW CONSTRUCTION TYPICAL ALL UNITS | DEMOLITION PLAN TYPICAL ALL UNITS



NEW CONSTRUCTION TYPICAL ALL UNITS | DEMOLITION PLAN TYPICAL ALL UNITS

FIRST FLOOR PLAN - TYPE "Y"
SCALE: 1/4" = 1'-0"

LEGEND

- EXISTING TO REMAIN
- TO BE REMOVED
- NEW PARTITION
- NEW BRICK
- DROP CEILING 7'-0" A.F.F.
- NEW DOORS
- EXISTING DOOR TO REMAIN
- DOOR TO BE REMOVED

DEMOLITION NOTES

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11. NOT USED
12. INSTALL NEW 1/2" WATER RESISTANT GYPSUM BOARD ON THE WALLS. PROVIDE TWO LAYERS OF 1/2" GYPSUM BOARD AROUND THE EDGE OF THE BATH TUB.
13. NEW ASPHALT SHINGLES ON 15# FELT.
14. NOT USED
15. NEW SHEET VINYL FLOOR.
16. NEW METAL GUTTER.

mark	date	by	description
-	12/23/85	THEM	GENERAL/MCB
-	11/5/85	A.L.	GEN/CONT. & ENG.

revisions

date 9/3/85
project 85067
designed SGS
drawn SGS A.L.
checked

Morrisette Cederquist Bondurant
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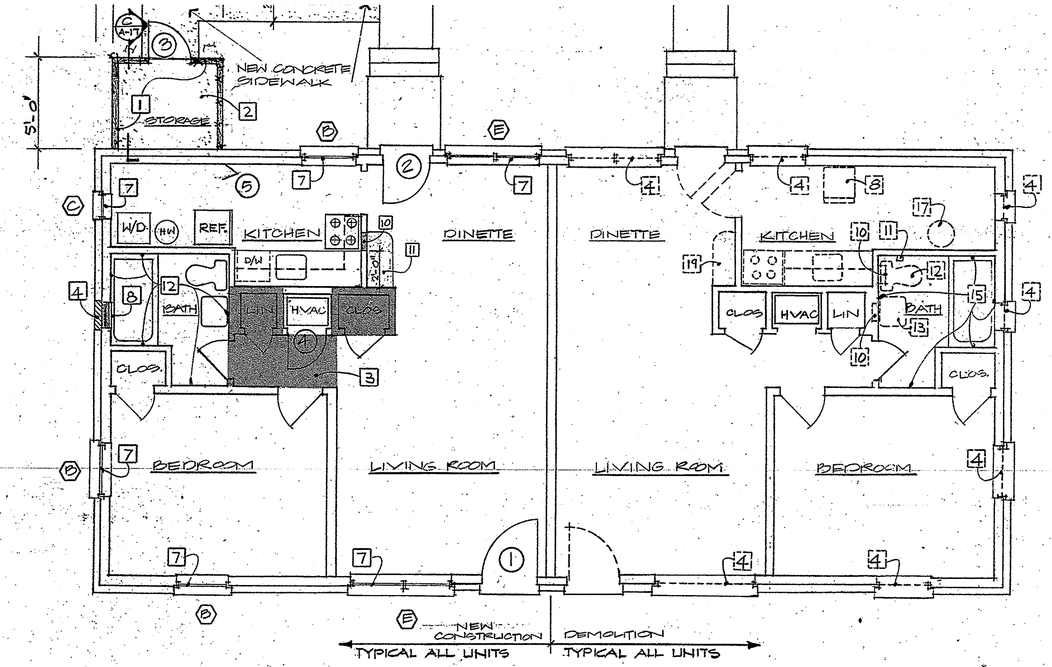
COMMONWEALTH OF VIRGINIA
THOMAS B. D. MORRISETTE
CERTIFICATE NO. 1772
REGISTERED ARCHITECT

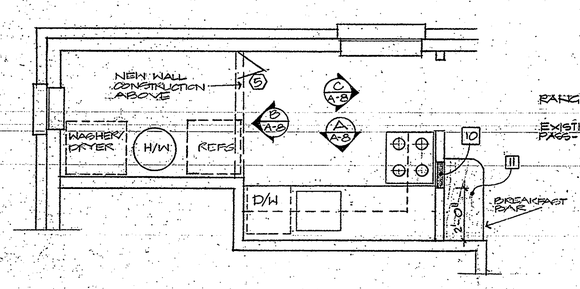
project FORT MONROE HOUSING PROJECT
drawing Floor Plan - Type "Y"

sheet A-7 X
of 32



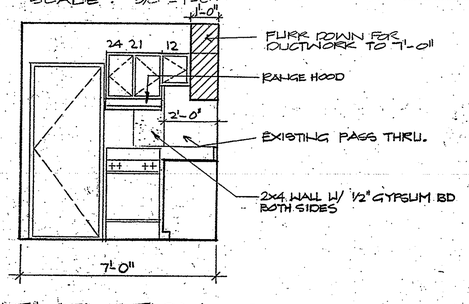
FLOOR PLAN - TYPE "Z"

SCALE : 1/4" = 1'-0"

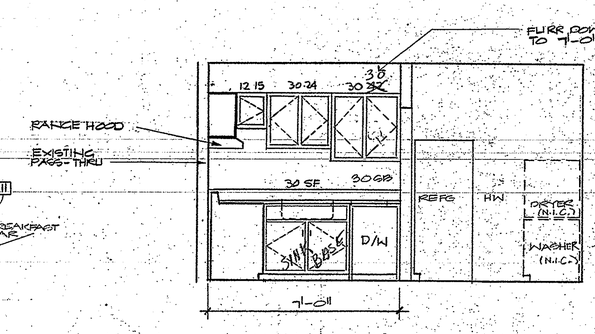


KITCHEN LAYOUT-TYPE "Z" (NEW)

SCALE : 3/8" = 1'-0"

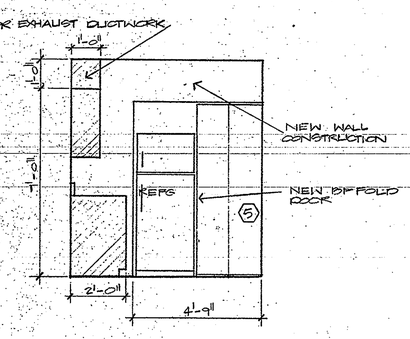


ELEVATION C A-8



ELEVATION A A-8

SCALE : 3/8" = 1'-0" (TYP.)



ELEVATION B A-8

NO DRAWER ?
SINK would have to be SMALLER.

LEGEND

- EXISTING TO REMAIN
- TO BE REMOVED
- NEW PARTITION
- NEW BRICK
- DROP CEILING 7'-0" A.F.F.
- NEW DOOR
- EXISTING DOOR TO REMAIN
- DOOR TO BE REMOVED

DEMOLITION NOTES

1. REMOVE EXISTING KITCHEN CABINETS, AND REPAIR DAMAGES DONE TO ADJACENT WALLS
2. REMOVE EXISTING DOOR, DOOR FRAME, AND PORTIONS OF AN ADJACENT WALL
3. REMOVE EXISTING CANOPY, AND FLASHING
4. REMOVE EXISTING WINDOWS, WINDOW FRAMES AND ANCHORS. REPAIR ANY DAMAGE DONE TO MASONRY OPENING.
5. REMOVE EXISTING CERAMIC TILE, TILE BASE, WIRE MESH AND PLASTER ON THE WALLS.
6. REMOVE EXISTING SLIDING DOORS AND DOOR TRACKS.
7. REMOVE EXISTING RANGE.
8. REMOVE EXISTING REFRIGERATOR.
9. CAREFULLY REMOVE EXISTING DOOR. (CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OF ANY DOOR FRAME DAMAGED DURING DEMOLITION.
10. REMOVE MEDICINE CABINET.
11. REMOVE TOILET PAPER HOLDER.
12. REMOVE EXISTING WATER CLOSET
13. REMOVE EXISTING LAVATORY.
14. REMOVE EXISTING WINDOW BRICK SILL.
15. REMOVE TOWEL RACK.
16. REMOVE EXISTING FLOOR FINISH.
17. REMOVE WATER HEATER.
18. REMOVE EXISTING ASPHALT SHINGLE ROOF AND FELT UNDERLAYMENT.
19. REMOVE EXISTING BAR COUNTER

NEW CONSTRUCTION

1. 2 x 4 STUDS AT 16" O.C. WITH 1/2" PLYWOOD SHEATHING, 15# FELT AND SIDING.
2. NEW 4" CONCRETE SLAB ON COMPACTED FILL. SEE SECTION C/A-17.
3. NEW 1/2" GYPSUM BOARD DROP CEILING. 7'-0" A.F.F. SEE H.V.A.C. PLANS FOR OTHER REQUIREMENTS.
4. NEW BRICK VENEER IN EXISTING WINDOW OPENING. COLOR AND COURSING TO MATCH ADJACENT BRICKS.
5. 2-2 X 4 STUDS WRAPPED WITH 1/2" GYPSUM BD.
6. 2 X 4 STUD WALL WITH 1/2" PLYWOOD SHEATHING ON THE EXTERIOR AND 1/2" GYPSUM BD ON THE INTERIOR. FINISH GYPSUM BD TO MATCH ADJACENT WALL.
7. NEW ALUMINUM REPLACEMENT WINDOW.
8. REINFORCED CONCRETE SLAB. SEE SECTION C/A-18.
9. 12" DEEP WOOD FRAME SOFFIT WITH 1/2" GYPSUM BD SURFACE.
10. 2 X 4 STUD WALL WITH 1/2" GYPSUM BOARD BOTH SIDES.
11. 3/4" PLYWOOD TOP WITH PLASTIC LAMINATE. SEE DETAIL 3/A-13.
12. INSTALL NEW 1/2" WATER RESISTANT GYPSUM BOARD ON THE WALLS. PROVIDE TWO LAYERS OF 1/2" GYPSUM BOARD AROUND THE EDGE OF THE BATH TUB.
13. NEW ASPHALT SHINGLES ON 15# FELT.
14. NOT USED.
15. NEW SHEET VINYL FLOOR.
16. NEW METAL GUTTER.

mark	date	by	description
-	11/5/85	A.L.	GEN./CORP OF ENG.

revisions

date 9/3/85
project 85007
designed
drawn
checked

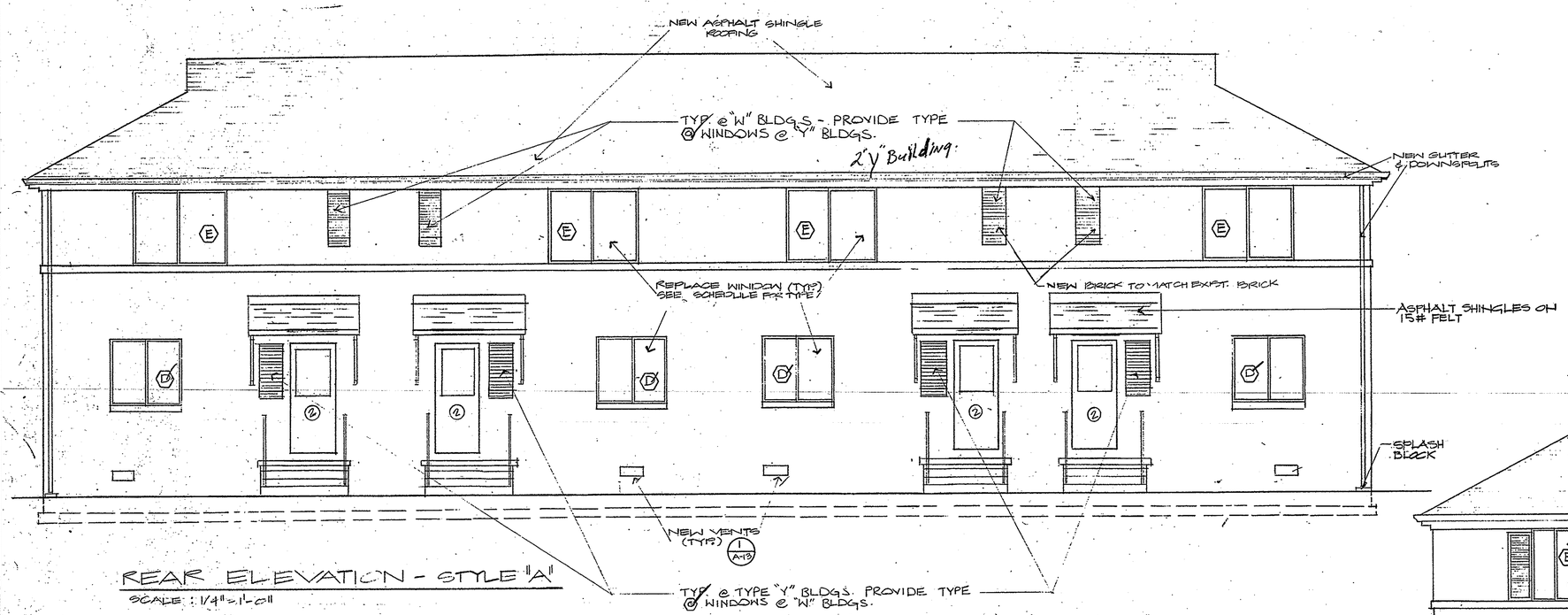
Morrisette Cederquist Bondurant
architecture
engineering
interiors
planning

COMMONWEALTH OF VIRGINIA
THOMAS B. B. MORRISETTE
CERTIFICATE NO. 1712
REGISTERED ARCHITECT

project FORT MONROE HOUSING PROJECT

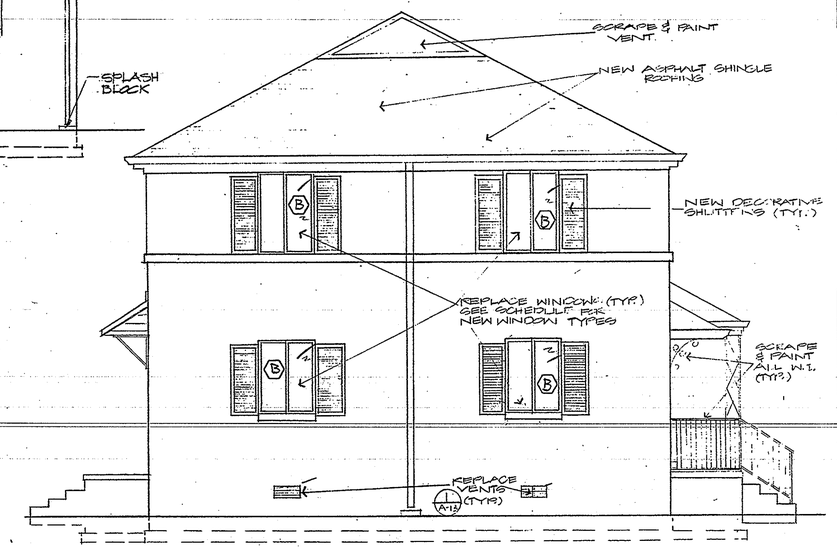
drawing Floor Plan - Type "Z"
Kitchen Elevations

sheet A-8 X of 32



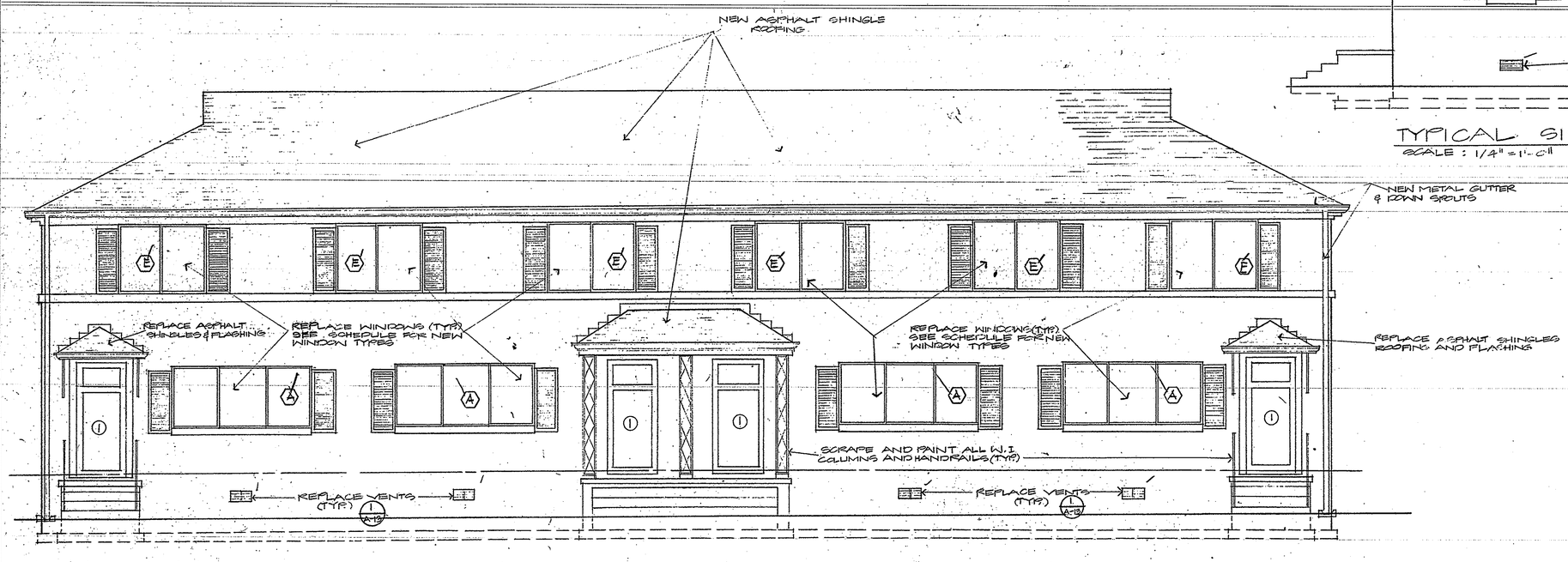
REAR ELEVATION - STYLE "A"

SCALE : 1/4" = 1'-0"



TYPICAL SIDE ELEVATION

SCALE : 1/4" = 1'-0"



FRONT ELEVATION STYLE "A"

SCALE : 1/4" = 1'-0"

revisions			
mark	date	by	description
—	12/29/85	THGM	GENERAL/MLB
—	11/5/05	A.L.	GEN/CORP OF ENG.

date 9/3/95
project 85067
designed SG3
drawn SG3
checked

Morrisette Cederquist Bondurant
architecture
engineering
interiors
planning

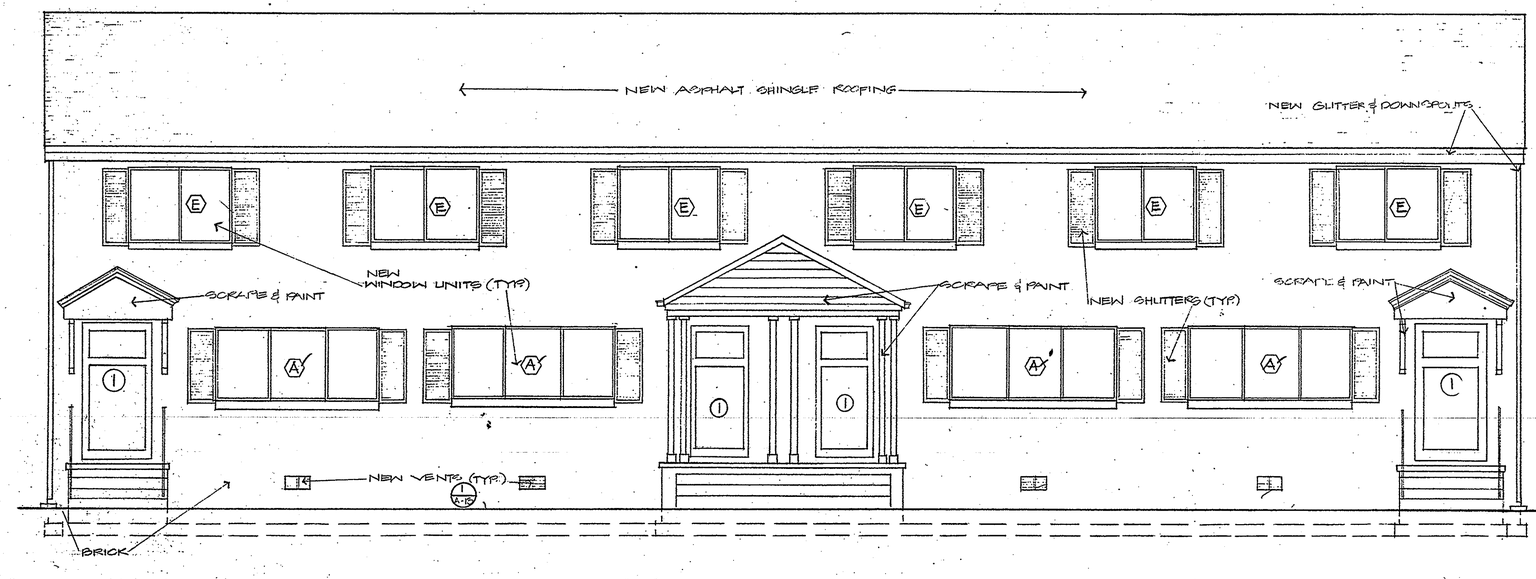
COMMONWEALTH OF VIRGINIA
THOMAS G. B. MORRISETTE
CERTIFICATE NO. 1772
REGISTERED ARCHITECT

project FORT MONROE HOUSING PROJECT

drawing Elevation - Style "A"

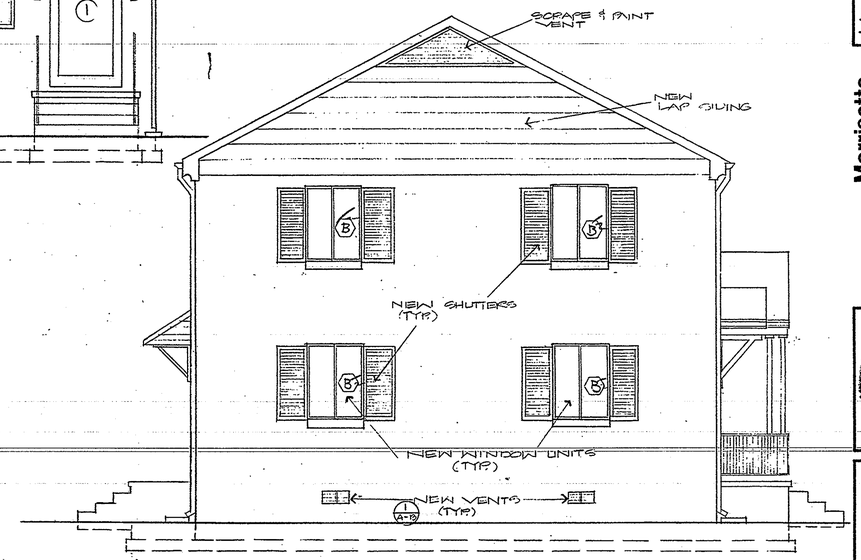
sheet A-9

of 32



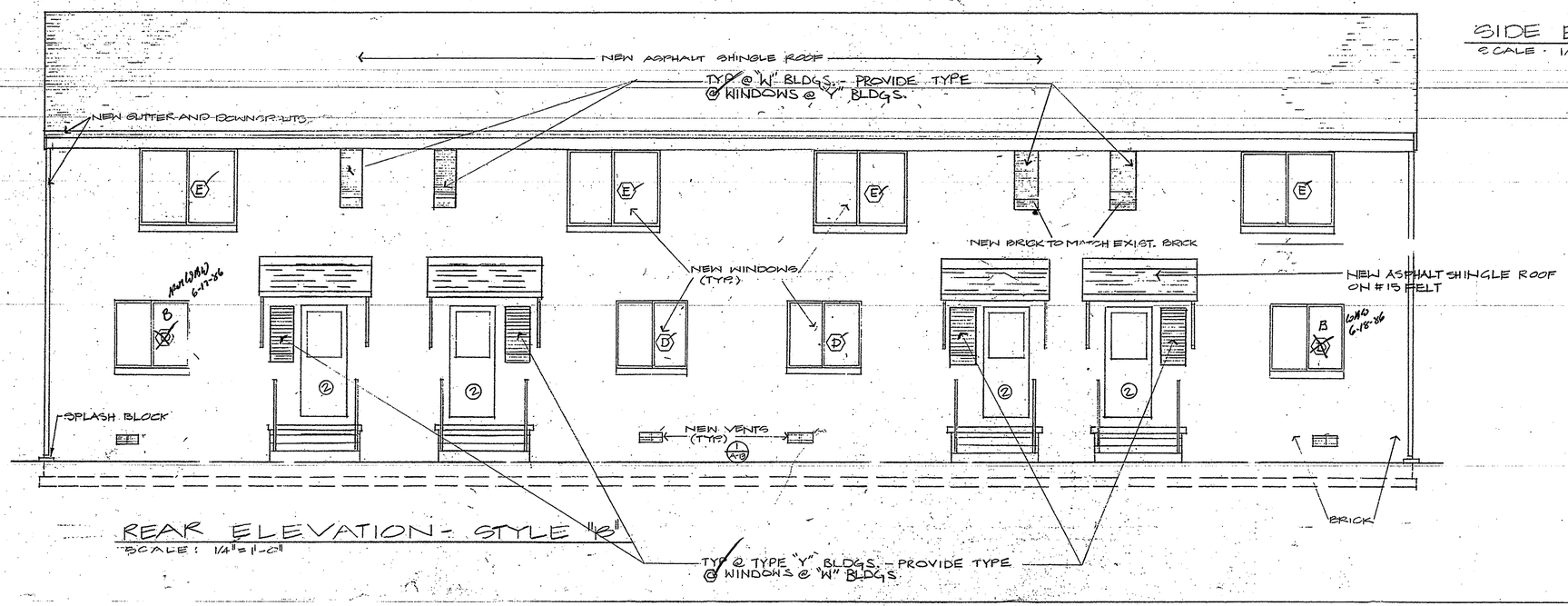
FRONT ELEVATION - STYLE "B"

SCALE: 1/4" = 1'-0"



SIDE ELEVATION

SCALE · 1/4" = 1'-0"



REAR ELEVATION - STYLE "B"

SCALE: 1/4" = 1'-0"

mark	date	by	description
-	12/23/85	THGM	GENERAL/MLB
-	11/5/85	A.L.	GEN/COEP OF ENG.

revisions

date 9/3/85
project 85067
designed SG3
drawn SG3
checked

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planning

project FORT MONROE HOUSING RENOVATION

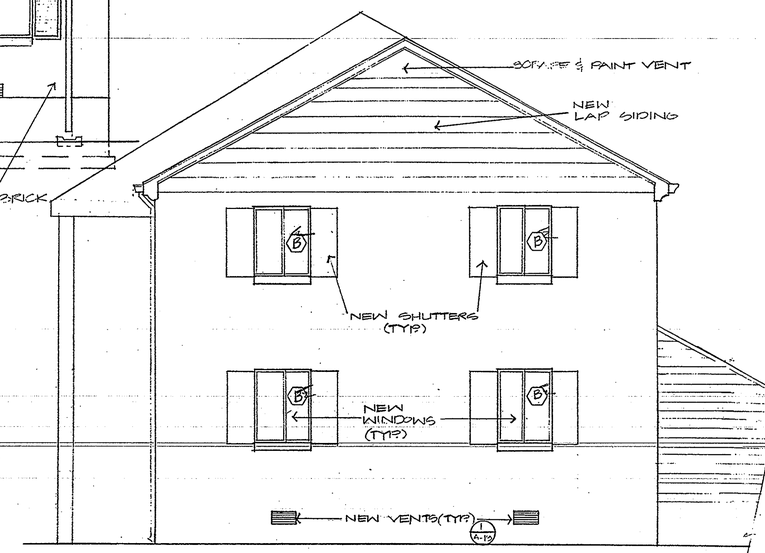
drawing Elevation - Style "B"

sheet A-10

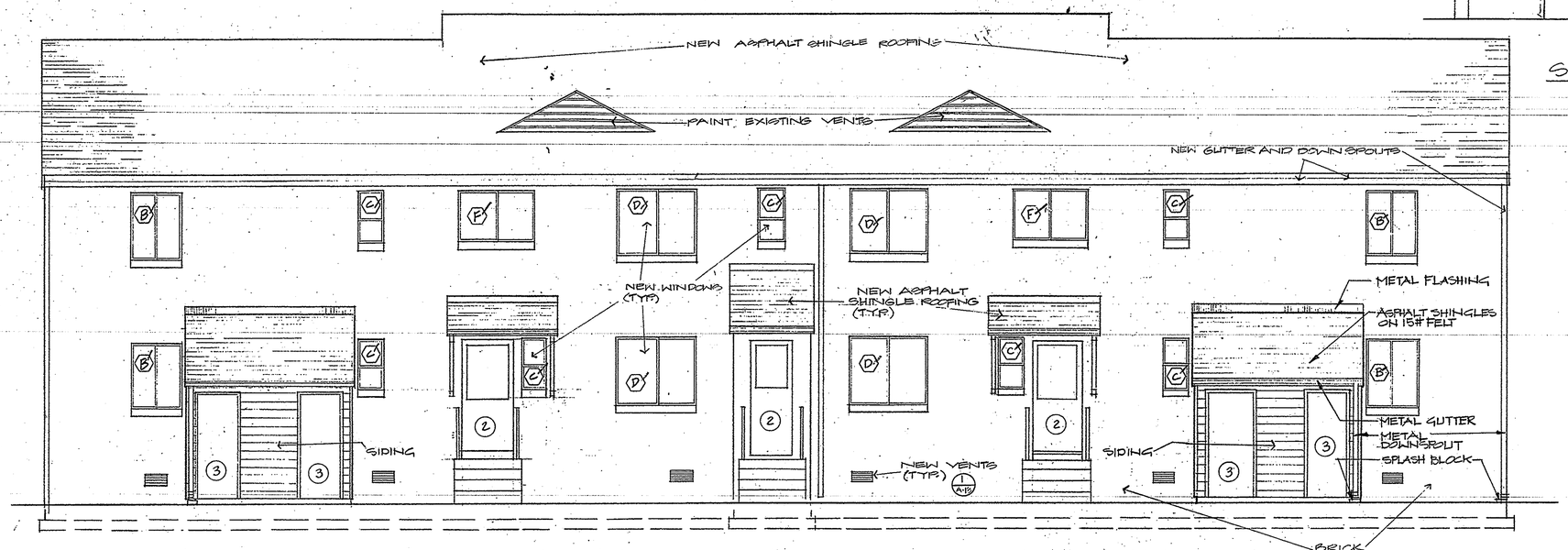
of 32

FRONT ELEVATION - STYLE "C"

SCALE: 1/4" = 1'-0"



SIDE ELEVATION



REAR ELEVATION - STYLE "C"

SCALE: 1/4" = 1'-0"

mark	date	by	description
–	11/5/85	A.L.	GEN/CORP OF ENG.

revisions

date 9/3/85
project 85067
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drawn SGS
checked

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COMMONWEALTH OF VIRGINIA
THOMAS B. MORRISETTE
CERTIFICATE NO. 17712
REGISTERED ARCHITECT

project FORT MONROE HOUSING RENOVATION

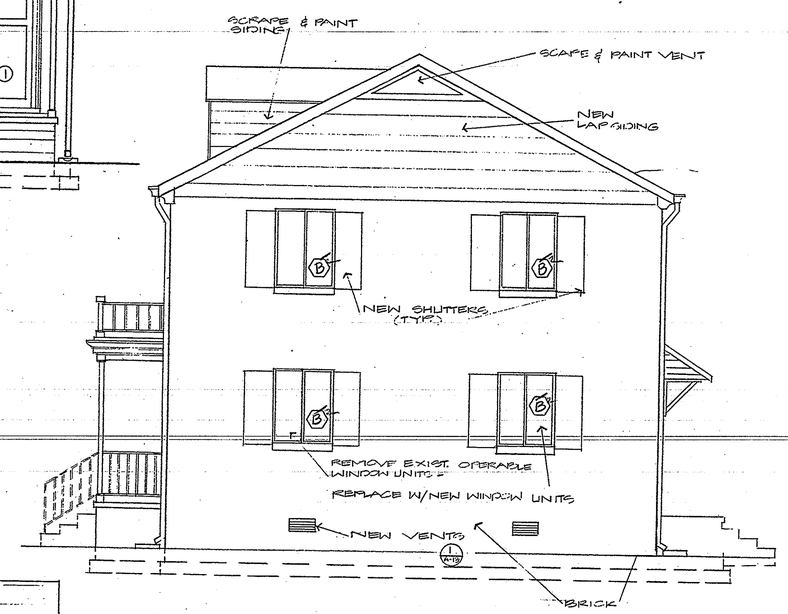
drawing Elevation – Style "C"

sheet A-11

of 32

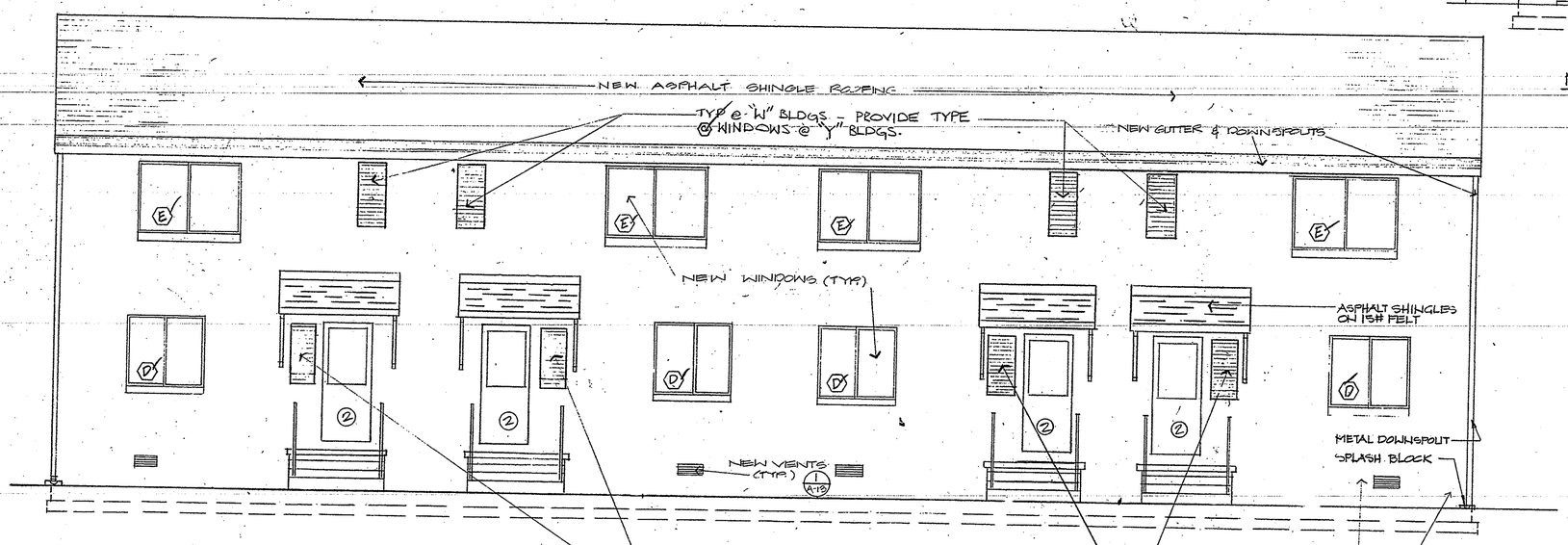
FRONT ELEVATION - STYLE "D"

SCALE : 1/4" = 1'-0"



RIGHT SIDE ELEVATION

SCALE : 1/4" = 1'-0"



REAR ELEVATION - STYLE "D"

SCALE : 1/4" = 1'-0"

revisions			
mark	date	by	description
-	12/23/85	THGM	GENERAL/MLB
-	11/5/85	A.L	GEN./CORP OF ENG.

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drawn SG3
checked

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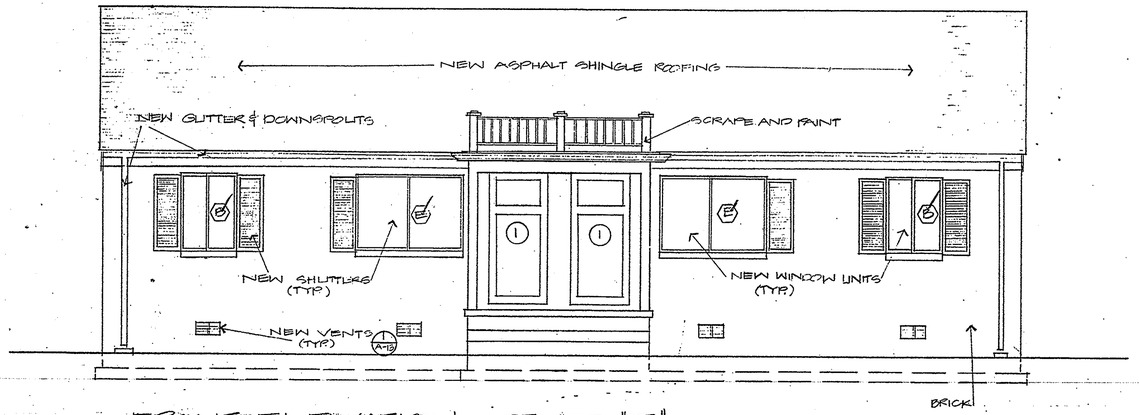
COMMONWEALTH OF VIRGINIA
THOMAS E. B. MORRISETTE
CERTIFICATE NO. 1772
REGISTERED ARCHITECT

project FORT MONROE HOUSING RENOVATION
drawing Elevation - Style "D"

sheet A-12 X
of 32



FRONT ELEVATION - STYLE "E"

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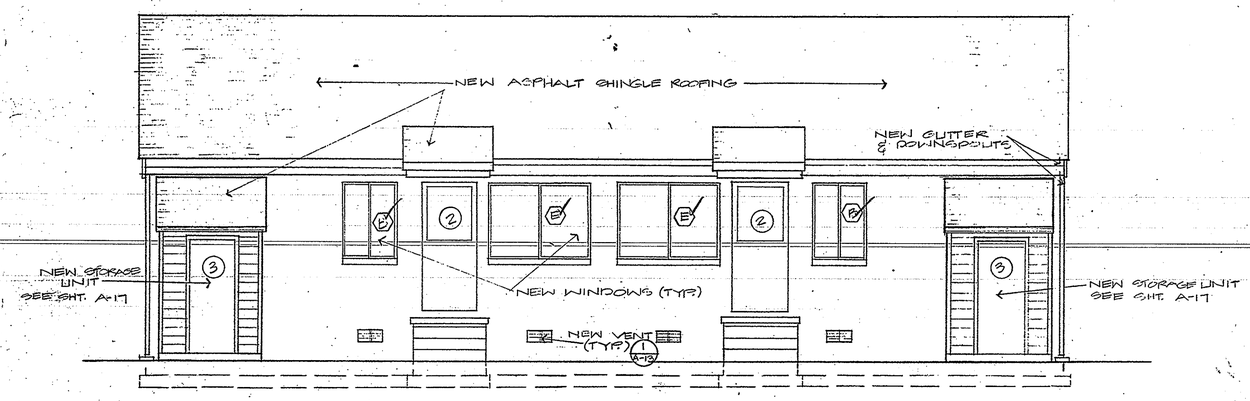

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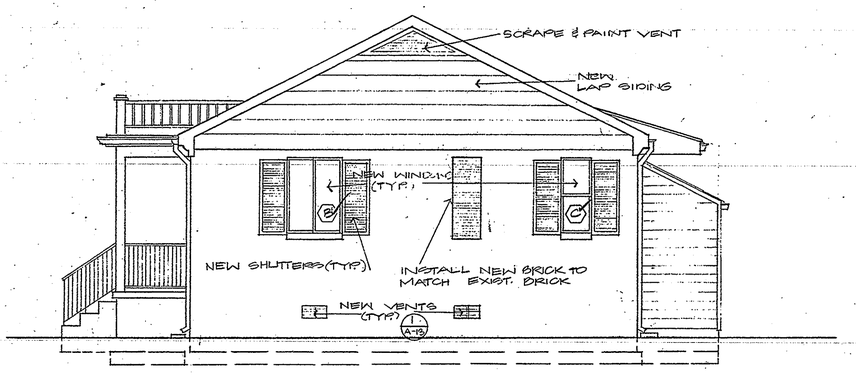
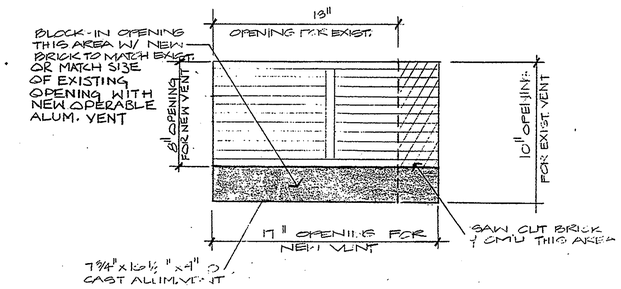
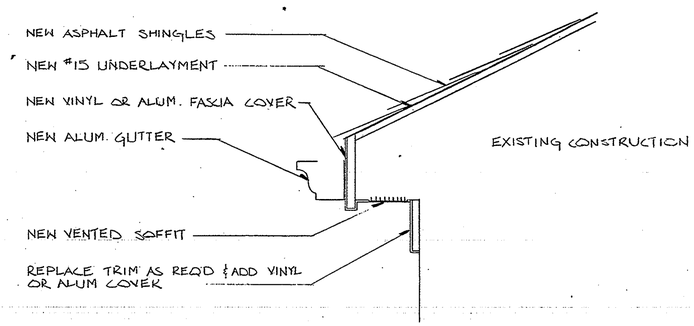


SIDE ELEVATION



1 A-13 DETAIL @ FOUNDATION VENT

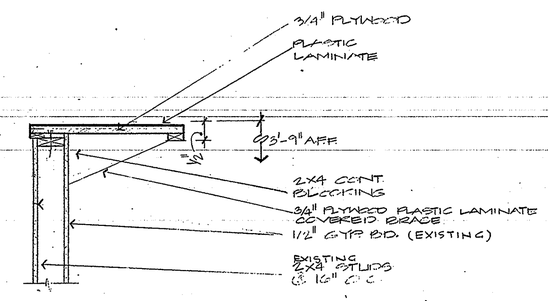
N.T.S.



2 A-13 CORNICE DETAIL

TYP @ ALL BUILDINGS

SCALE: 1 1/2" = 1'-0"



3 A-13 DETAIL @ BAR COUNTER

N.T.S

mark	date	by	description
—	12/23/85	TH&M	GENERAL/MCB
—	11/5/85	A.L.	GEN/CONF OF ENG

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date 9/16/85
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THOMAS B. B. MORRISETTE CERTIFICATE NO. 1772

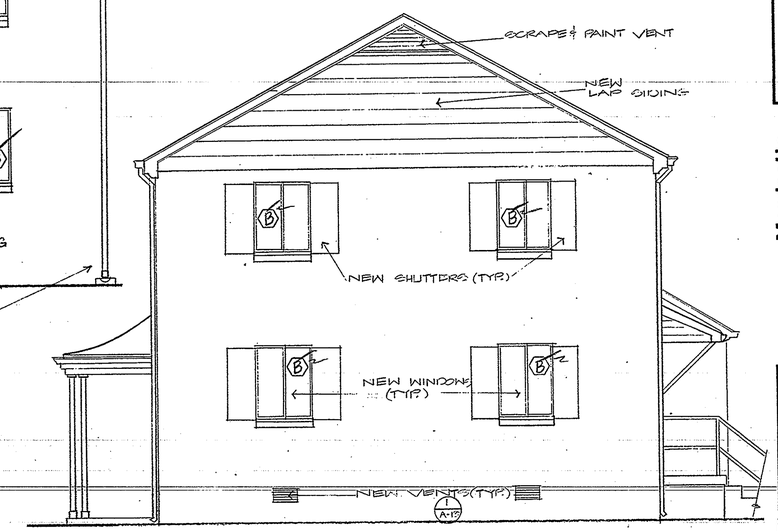
project FORT MONROE HOUSING RENOVATION

drawing Elevation – Style "E"

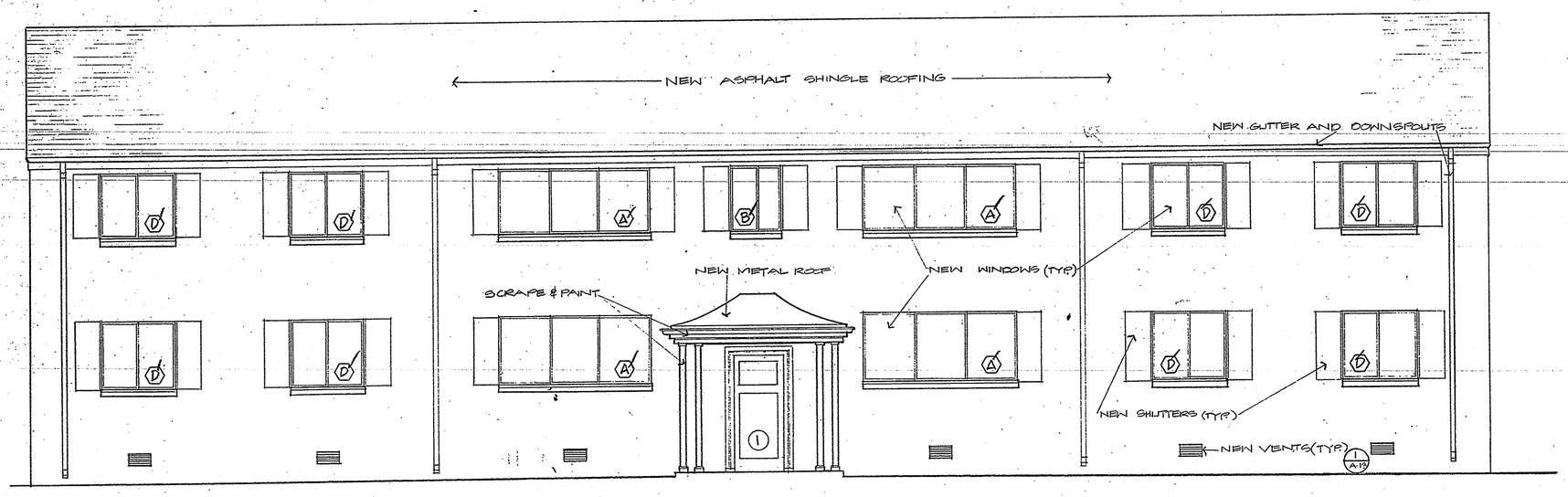
sheet A-13

of 32

REAR ELEVATION - STYLE "F"
1/4" = 1'-0"



SIDE ELEVATION
1/4" = 1'-0"



FRONT ELEVATION - STYLE "F"
1/4" = 1'-0"

mark	date	by	description
–	11/5/85	A.L.	GEN/CORP OF ENG.

revisions

date 9/3/85
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drawn SGS
checked

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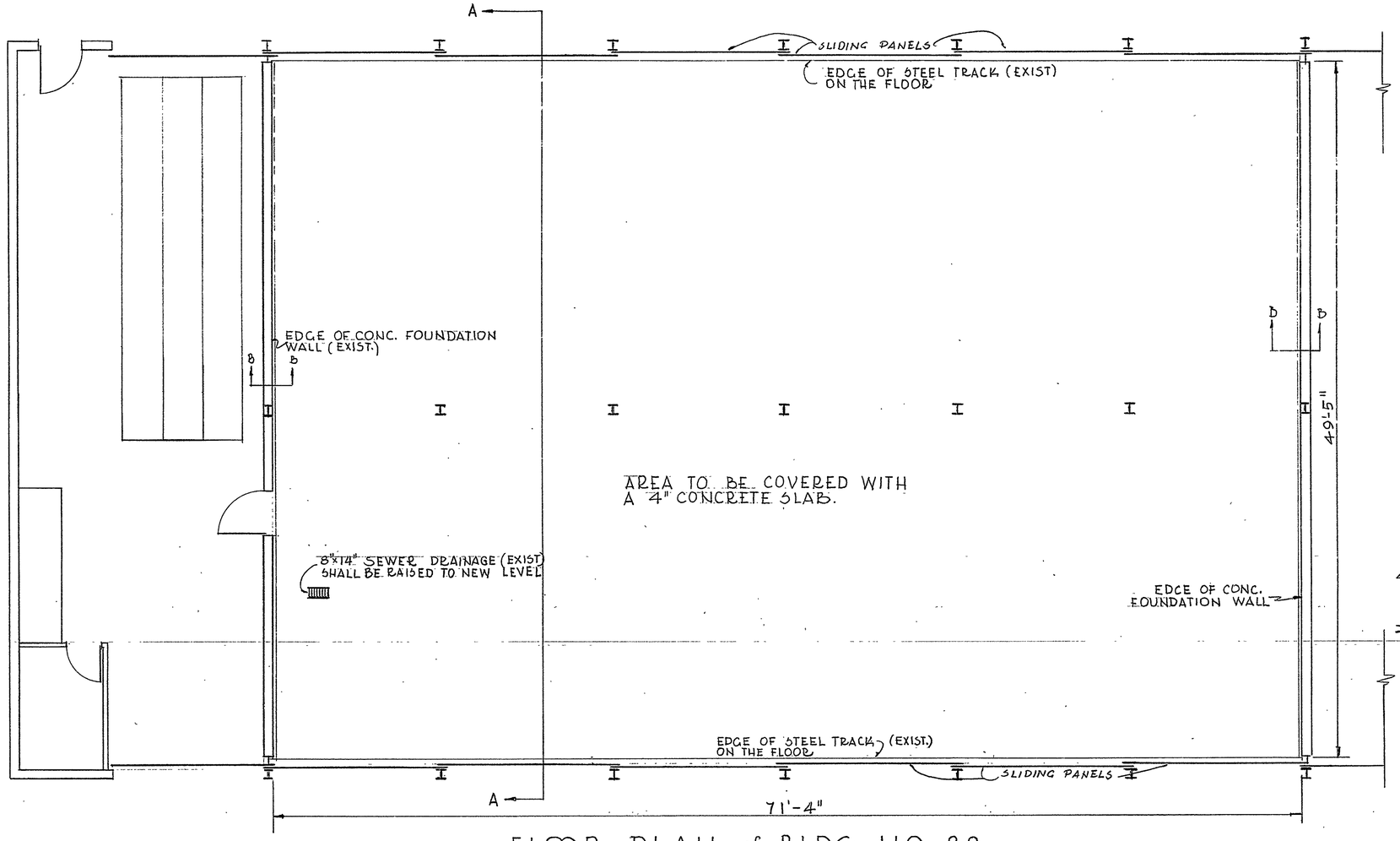
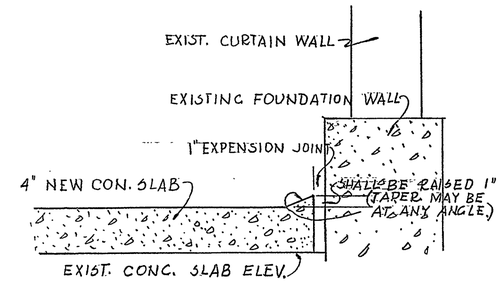
COMMONWEALTH OF VIRGINIA
THOMAS B. B. MORRISETTE
CERTIFICATE NO. 1712
REGISTERED ARCHITECT

project FORT MONROE HOUSING RENOVATION
drawing Elevation - Style "F"

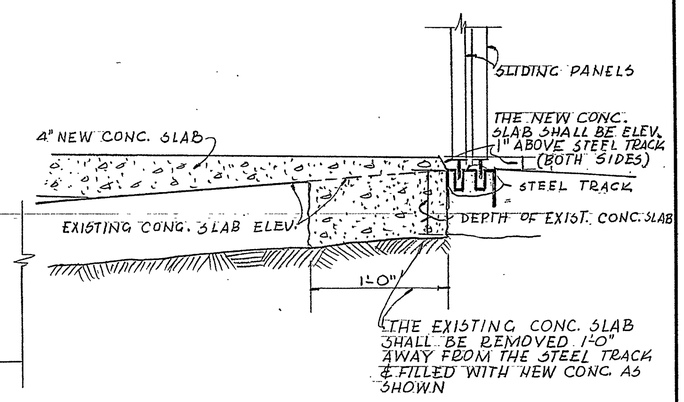
sheet A-14
of 32



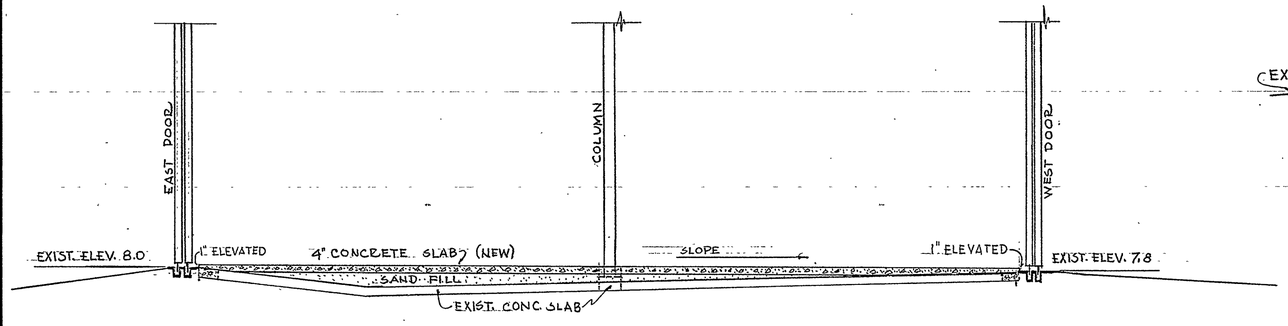
FLOOR PLAN of BLDG. NO. 88
SCALE 3/16"-1'-0"



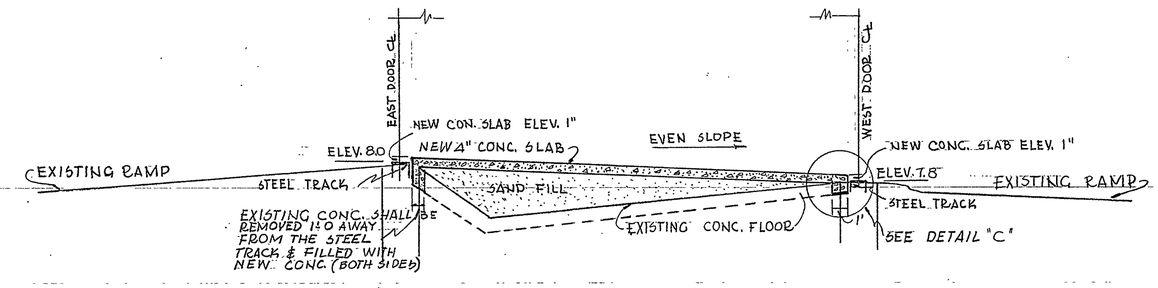
SECTION B-B
SCALE 1½"-1'-0"



DETAIL "C"
SCALE 1½"-1'-0"



SECTION A-A
SCALE 3/16" 1'-0"



SCHEMATIC of SEC. A-A
SCALE VERTICAL - 1"=1'-0"
SCALE HORIZONTAL - 1"=10'-0"

DEPARTMENT OF THE ARMY
HEADQUARTERS SECOND ARMY
OFFICE OF THE POST ENGINEER, FORT MONROE, VA.

DRAWN BY	LES J. W
TRACED BY	
CHECKED BY	
REVISIONS	
SCALE	AS INDICATED

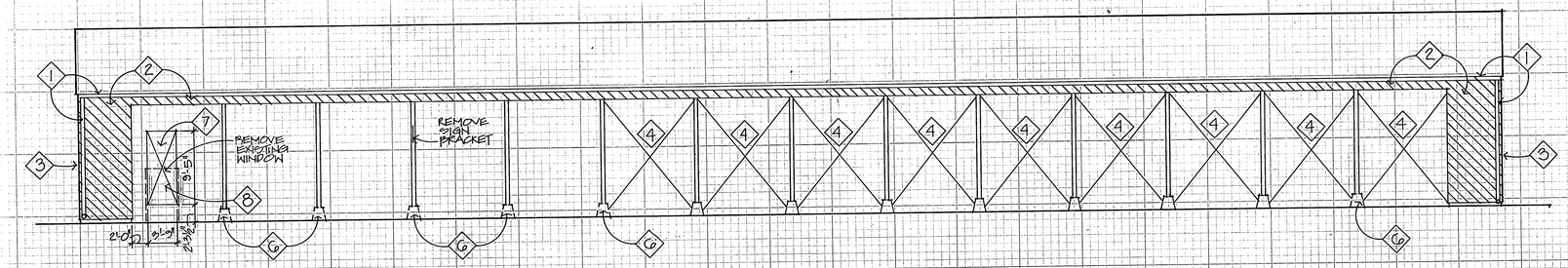
"PROPOSED PROJECT"
NEW CONC. FLOOR FOR BLDG. 88

RECOMMENDED APPROVAL	APPROVED	APPROVED
L. D. Beale	COL. C. E.	POST COMMANDER

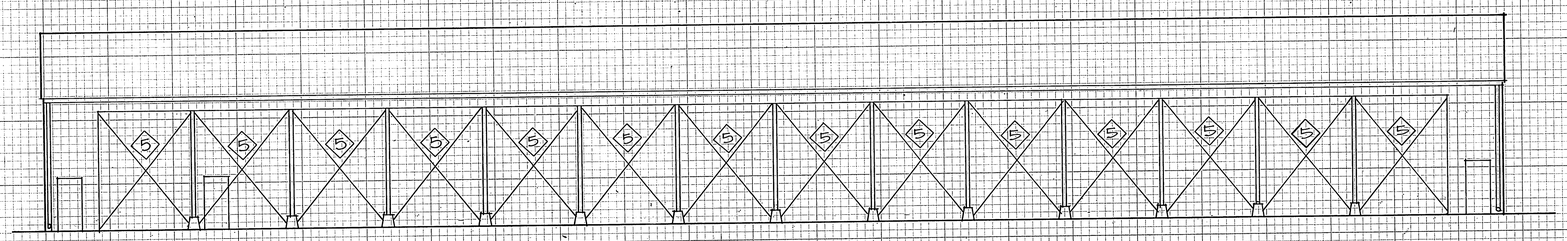
DRAWING NO. SPECIFICATION NO. FM-88-506-62 | DATE MAY-9-62 | SHEET 1 OF 1

DOOR REPAIR AND REPLACEMENT

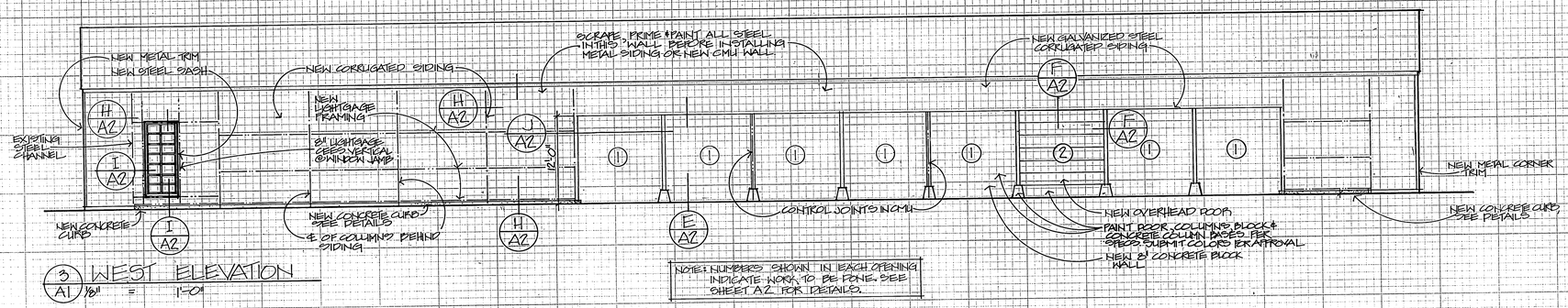
BUILDINGS 88 AND 168 FORT MONROE VIRGINIA



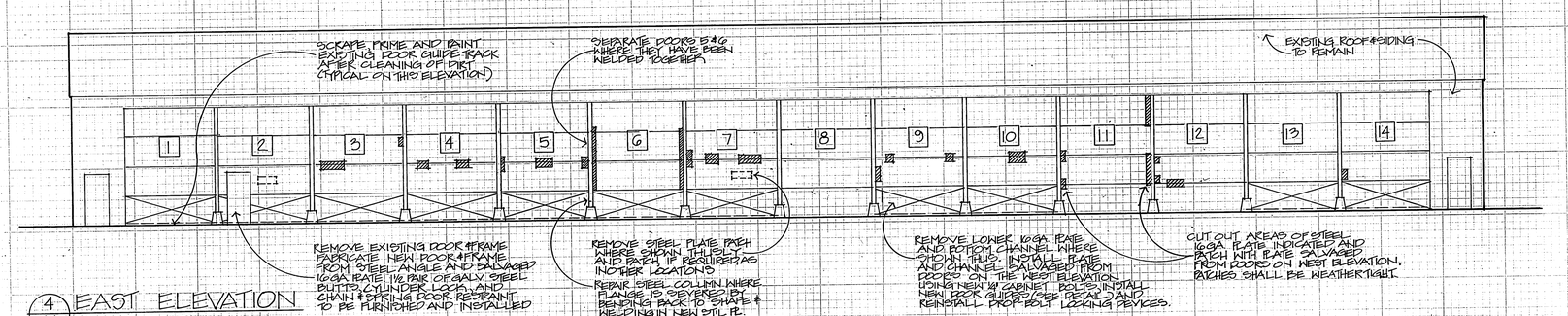
1/A1 WEST ELEVATION - DEMOLITION
1/8" = 1'-0"



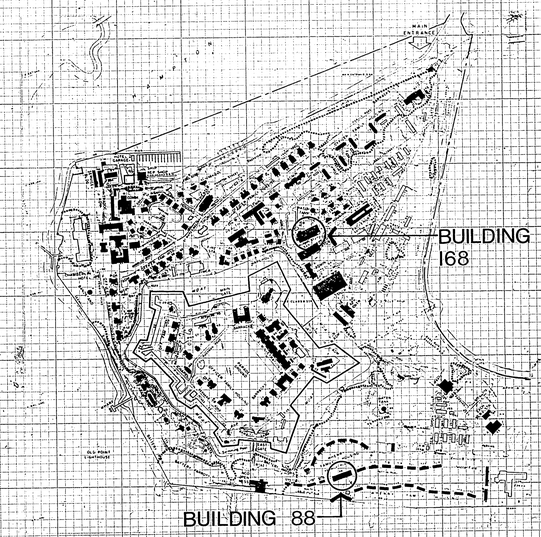
2/A1 EAST ELEVATION - DEMOLITION
1/8" = 1'-0"



3/A1 WEST ELEVATION
1/8" = 1'-0"



4/A1 EAST ELEVATION
1/8" = 1'-0"



LOCATION MAP
NO SCALE

LIST OF DRAWINGS

SHEET NO	DRAWING TITLE
A1	BLDG. 88 PLAN, ELEVATIONS & DEMOLITION
A2	BLDG. 88 DETAILS
A3	BLDG 168

LIST OF SYMBOLS

- DEMOLITION NOTE
- AREA OF WORK AFFECTED BY ASSOCIATED DEMO NOTE
- AREA OF SIDING TO BE REMOVED
- OPENING TYPE INDICATOR
- DOOR NUMBER
- AREAS OF 16 GA. STEEL SHEET TO BE REMOVED
- DETAIL OR ELEV. LETTER
- SHEET NO. WHERE DETAIL MAY BE FOUND

GENERAL NOTES

1. SCRAPE AND REPAINT ALL REMOVED DOORS, TRACKS, HANGERS, HARDWARE AND ALL STEEL COLUMNS WITH TWO COATS PER SPECIFICATIONS. ON WEST ELEVATION, SCRAPE AND REPAINT ADDITIONALLY ALL FRAMING EXPOSED BY THE REMOVAL OF ASBESTOS-CEMENT SIDING.
2. EACH SLIDING DOOR TO BE REINSTALLED SHALL BE CLEANED OF ALL HASPS AND OTHER APPENDAGES. DROP-BOLT LOCKING DEVICES SHALL BE REINSTALLED ON ALL DOORS USING SALVAGED BOLTS, HOOKS, CHAINS AND ANGLES. POSITION EACH DOOR AND DRILL ANY ADDITIONAL REQUIRED HOLES IN DOOR GUIDE TRACK.
3. REINSTALL DOORS ON ALTERNATE TRACKS WITH DOOR NO. 1 ON OUTSIDE TRACK, DOOR NO. 2 ON INSIDE ETC. PAINT NEW DOOR NUMBER IN 3" HIGH BLOCK LETTERS ON THE INSIDE OF THE DOOR NEAR THE CENTER. DOORS SHALL HAVE 3/8" MIN. CLEARANCE TO DOOR GUIDE TRACK AT BOTTOM.

DEMOLITION NOTES

1. REMOVE EXISTING GUTTER AND DOWNSPOUT AND SALVAGE FOR REINSTALLATION.
2. REMOVE EXISTING ASBESTOS-CEMENT CORRUGATED SIDING, TAKING CARE NOT TO DAMAGE GUTTER BRACKETS.
3. REMOVE EXISTING ASBESTOS-CEMENT CORNER TRIM AND MODIFY STEEL CORNER TRIM TO FINISH TO NEW SIDING MATERIAL.
4. REMOVE EXISTING SLIDING METAL DOOR, HARDWARE AND TRACK IN THIS OPENING. SALVAGE AND STORE SO THAT THE CONTRACTOR MAY REMOVE PARTS FOR THE REPAIR OF THE DOORS ON THE EAST ELEVATION.
5. REMOVE EXISTING SLIDING METAL DOOR, HARDWARE AND TRACK IN THIS OPENING, AFTER LABELING EACH DOOR TO SHOW WHICH OPENING IT CAME FROM. SALVAGE AND STORE DOORS SO THAT THEY MAY BE REPAIRED, REFINISHED AND REINSTALLED BY THE CONTRACTOR. SEE OTHER ELEVATIONS FOR SPECIFIC PATCHING AND REPAIR NOTES.
6. REMOVE CONCRETE COLUMN BASE, TAKING CARE NOT TO DAMAGE THE STEEL COLUMNS. PROTECT THE STEEL FROM THE WEATHER UNTIL A NEW CURB IS POURED.
7. ACCURATELY SAW OUT AND REMOVE 16 GA. STEEL SHEET FROM THIS AREA, TO PREPARE FOR NEW WINDOW. NOTCH HORIZONTAL STEEL CHANNEL 1-1/2" TO ALLOW WINDOW TO BE INSTALLED.
8. REMOVE GYPSUM BOARD AND WOOD STUDS UP TO 7' CEILING HEIGHT AT NEW WINDOW OPENING, TO ALLOW FOR INSTALLATION OF NEW WINDOW.

REV.	DATE	DESCRIPTION	BY

DEPARTMENT OF THE ARMY

OFFICE OF THE DIRECTORATE OF FACILITIES ENGINEERING, FORT MONROE, VA.

USING AGENCY APPROVAL — PRINTED NAME — SIGNATURE — DATE

DRAWN BY: APC
ENV: DCS
MP: SAP
B & G: RJR
UTIL: W.M.
FP & S:
SCALE

DOOR REPAIR AND REPLACEMENT
BUILDINGS 88 AND 168 FORT MONROE, VIRGINIA

BUILDING #88 PLAN, ELEVATIONS & DEMOLITION

Evans Hudson Vlattas Architects Inc.
10 strawberry banks lane Hampton, va. 23663 (804) 722-1964

RECOMMENDED APPROVAL — APPROVED — DFE — APPROVED — POST COMMANDER

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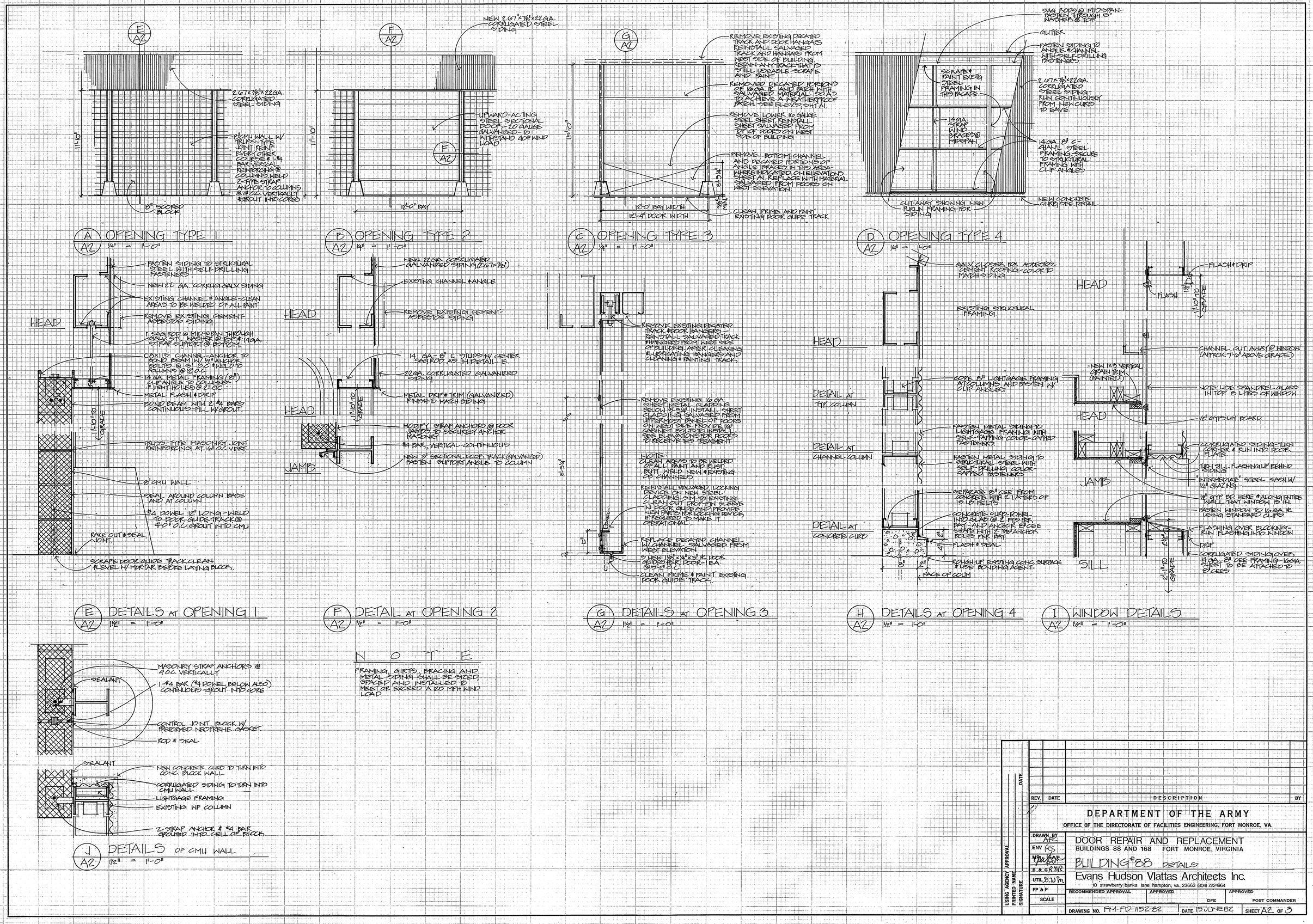

N O T E

FRAMING, GIRTS, BRACING AND METAL SIDING SHALL BE SIZED, SPACED AND INSTALLED TO MEET OR EXCEED A 100 MPH WIND LOAD.

USING AGENCY APPROVAL
PRINTED NAME
SIGNATURE
DATE

REV.	DATE	DESCRIPTION	BY

DEPARTMENT OF THE ARMY

OFFICE OF THE DIRECTORATE OF FACILITIES ENGINEERING, FORT MONROE, VA.

DRAWN BY AFC
ENV PCS
MDW GAE
B & G RMR
UTIL B.W.M.
FP & P
SCALE

DOOR REPAIR AND REPLACEMENT
BUILDINGS 88 AND 168 FORT MONROE, VIRGINIA

BUILDING #88 DETAILS

Evans Hudson Vlattas Architects Inc.
10 strawberry banks lane hampton, va. 23663 (804) 722-1964

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DRAWING NO. FM-FD-1152-82 | DATE 15 JUNE 82 | SHEET A2 OF 3